

1/41

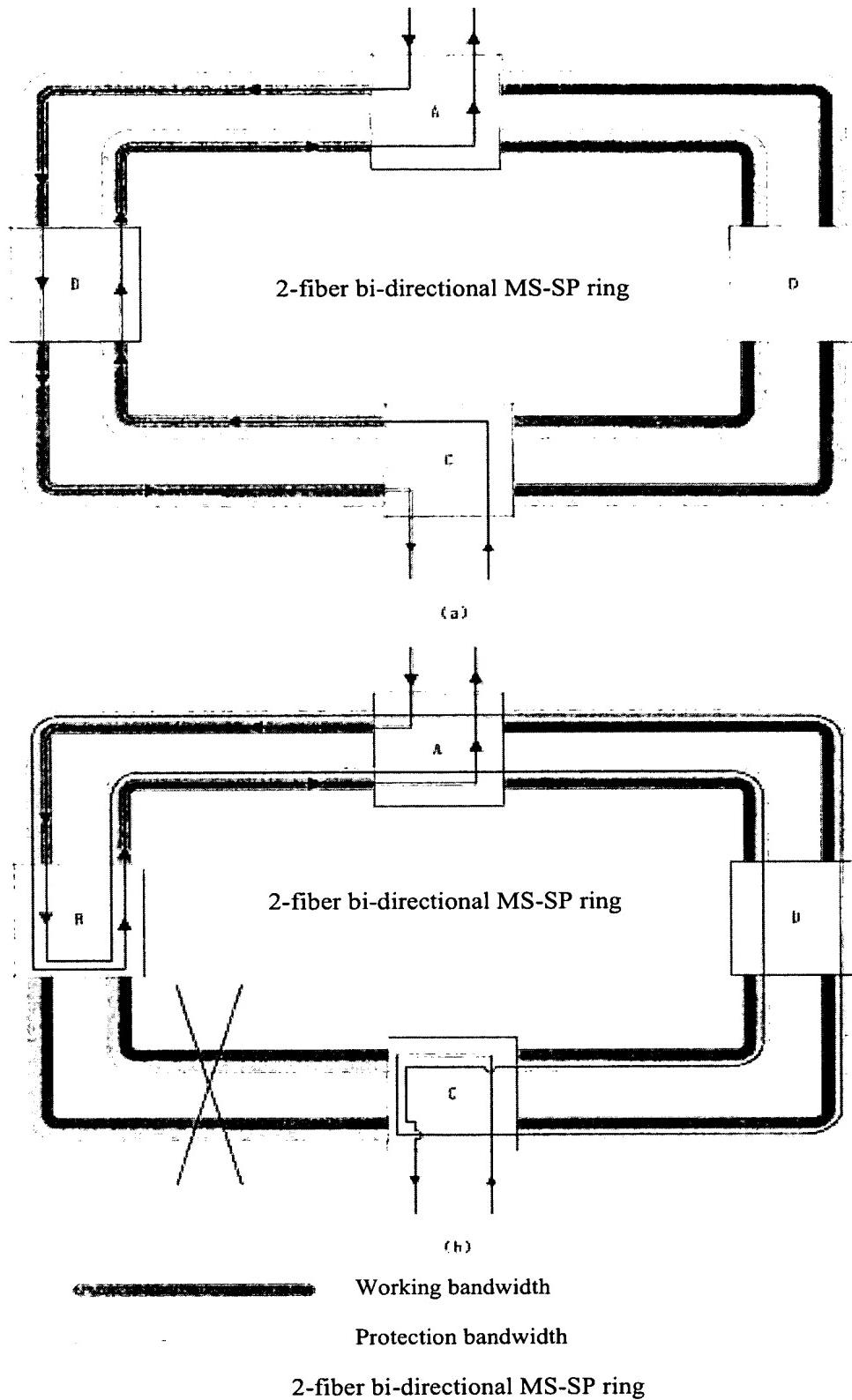
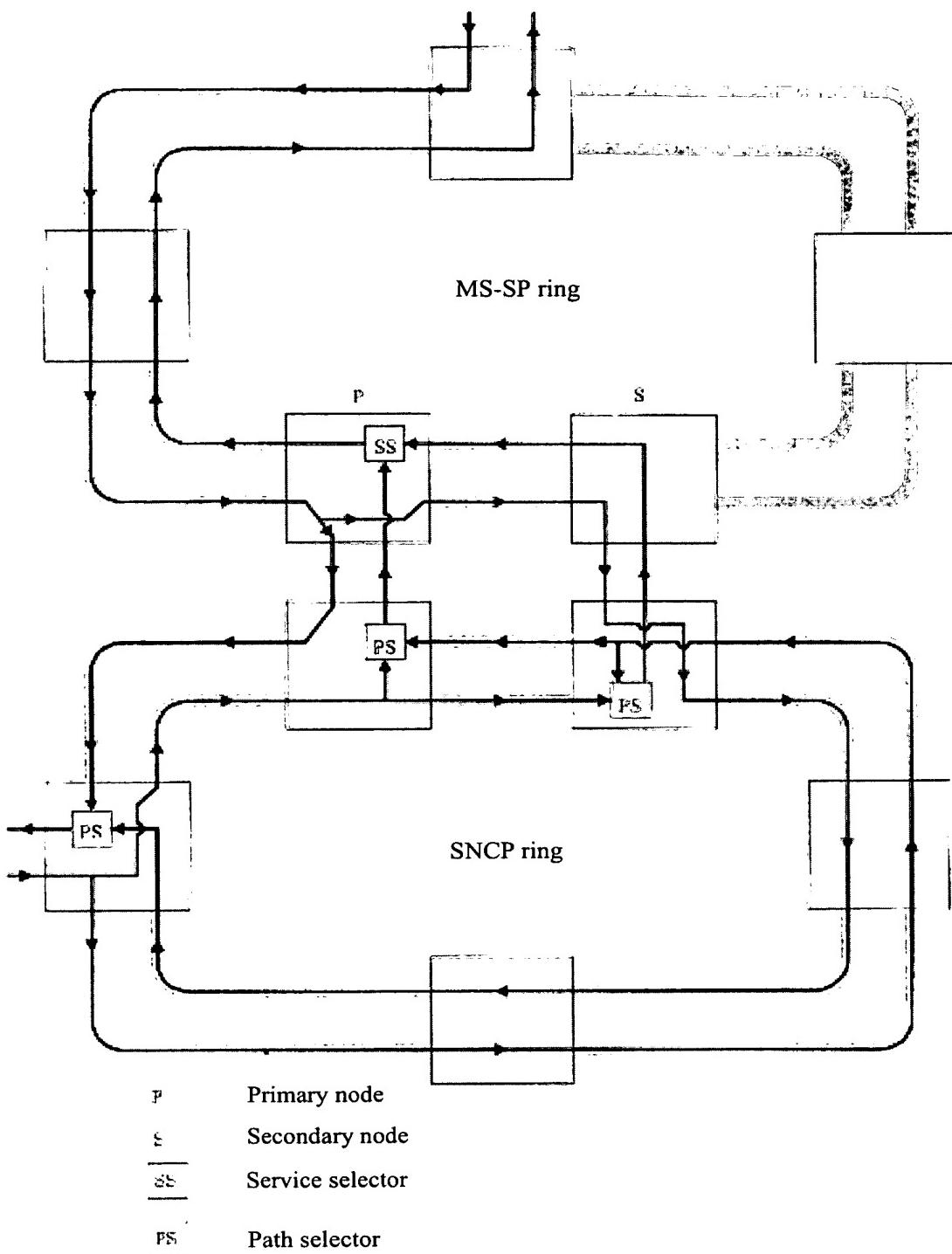


Fig. 1

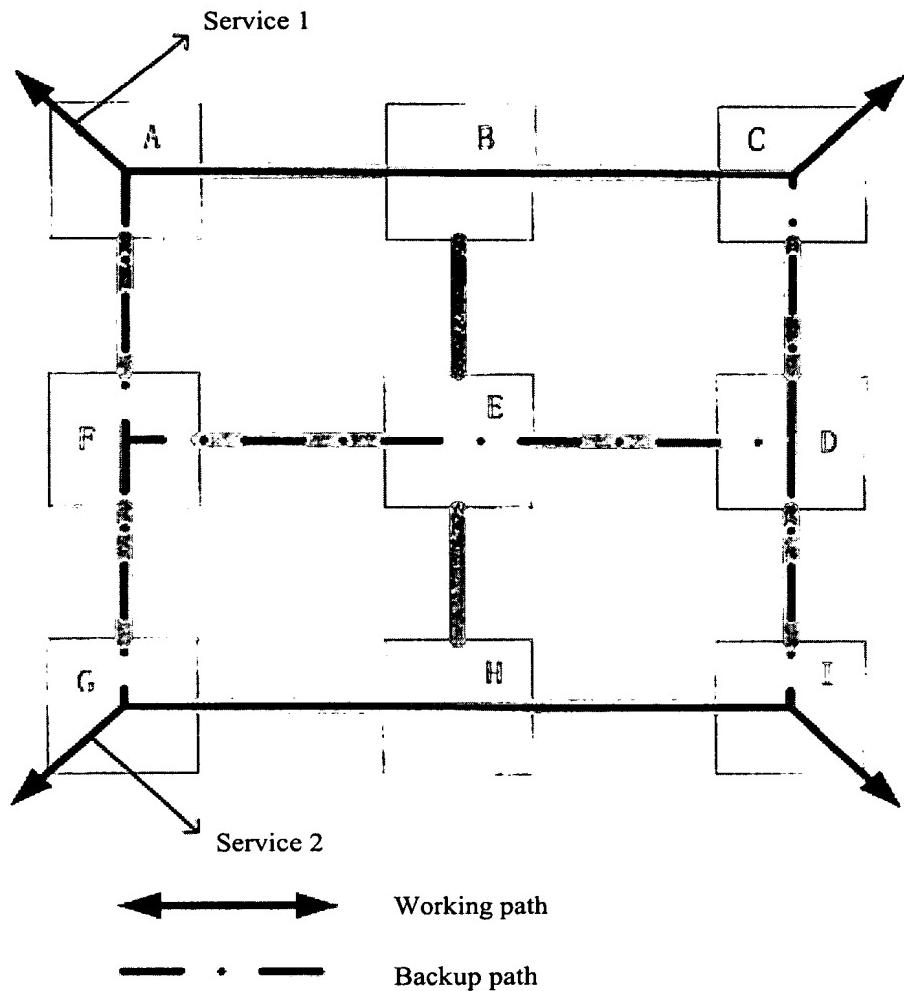
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A dual-node service interconnection configuration between a SNCP ring and a MS-SP ring

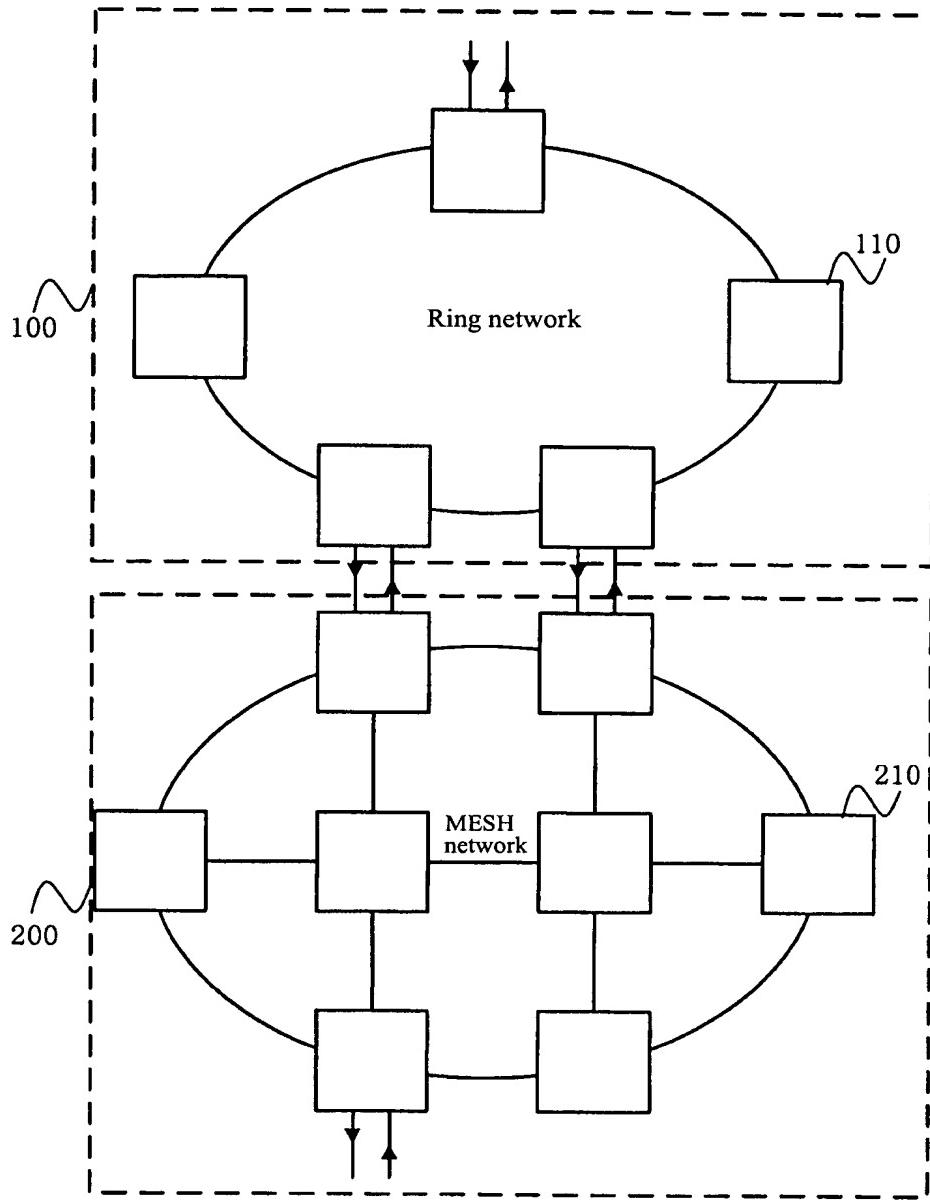
Fig. 2

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An example of restoration in a mesh network

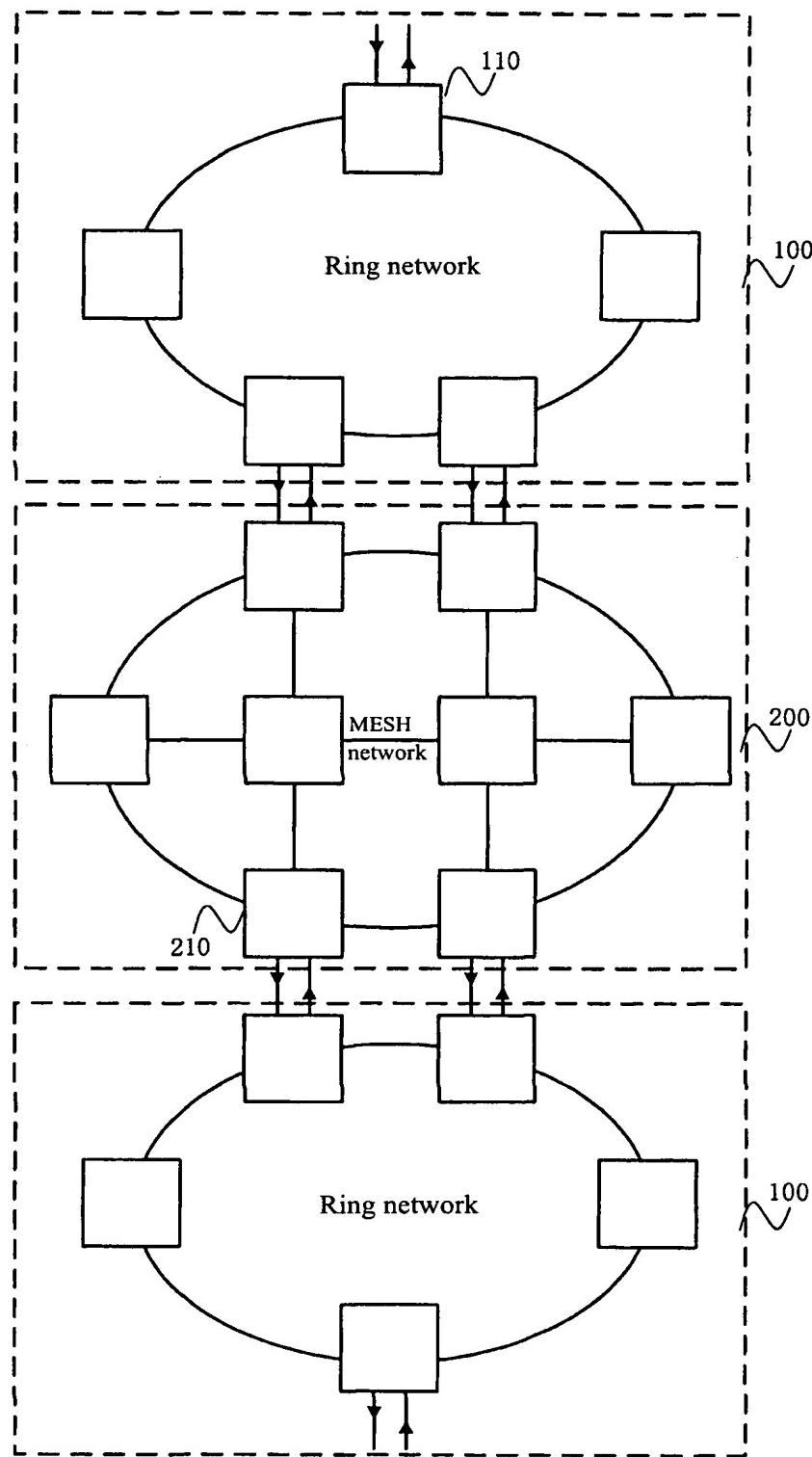
Fig. 3



A dual-node interconnection structure between a mesh network and a ring network: Mesh-RING

Fig. 4

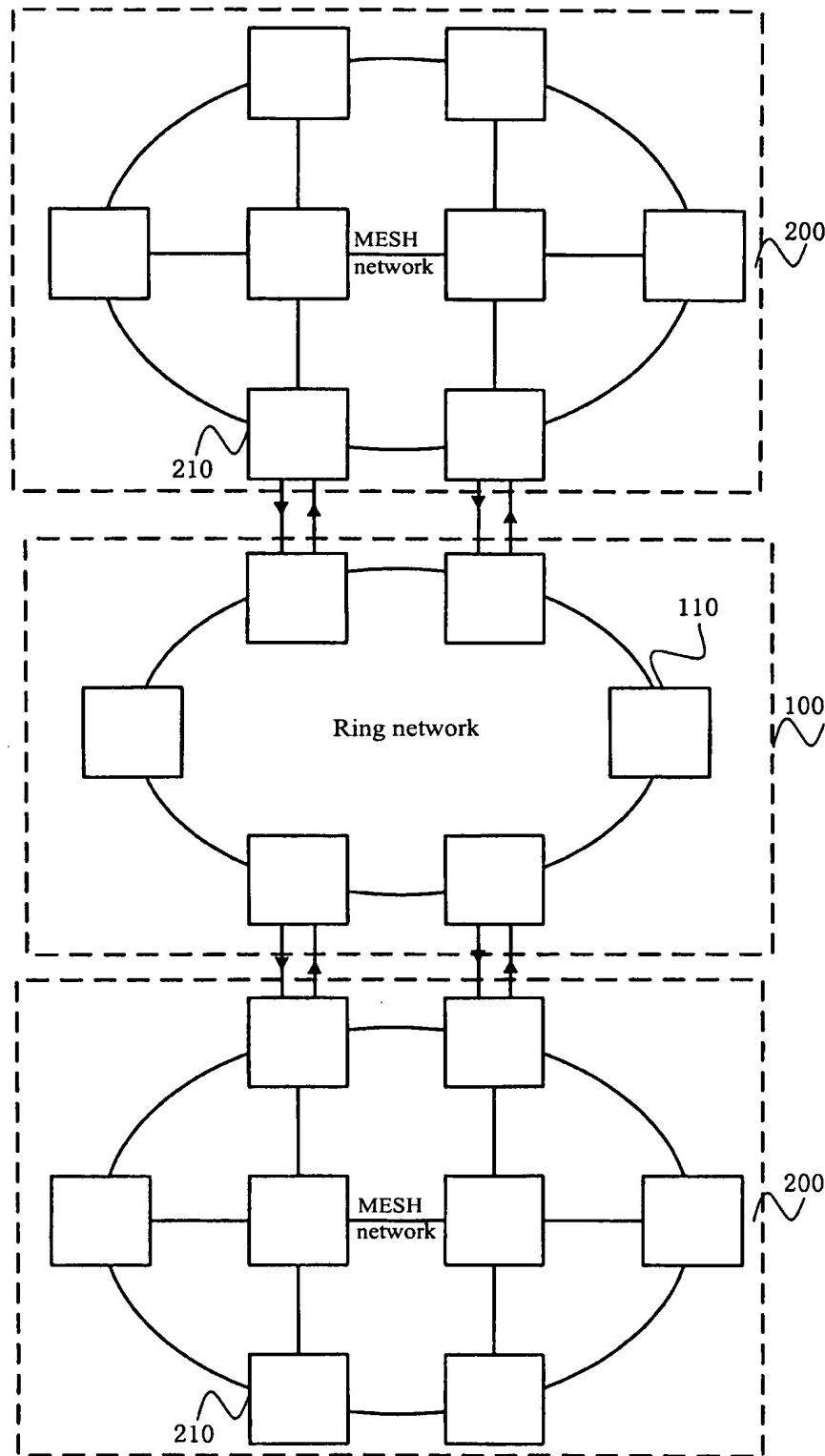
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A dual-node interconnection structure between ring networks and a mesh network: RING-Mesh-RING

Fig. 5

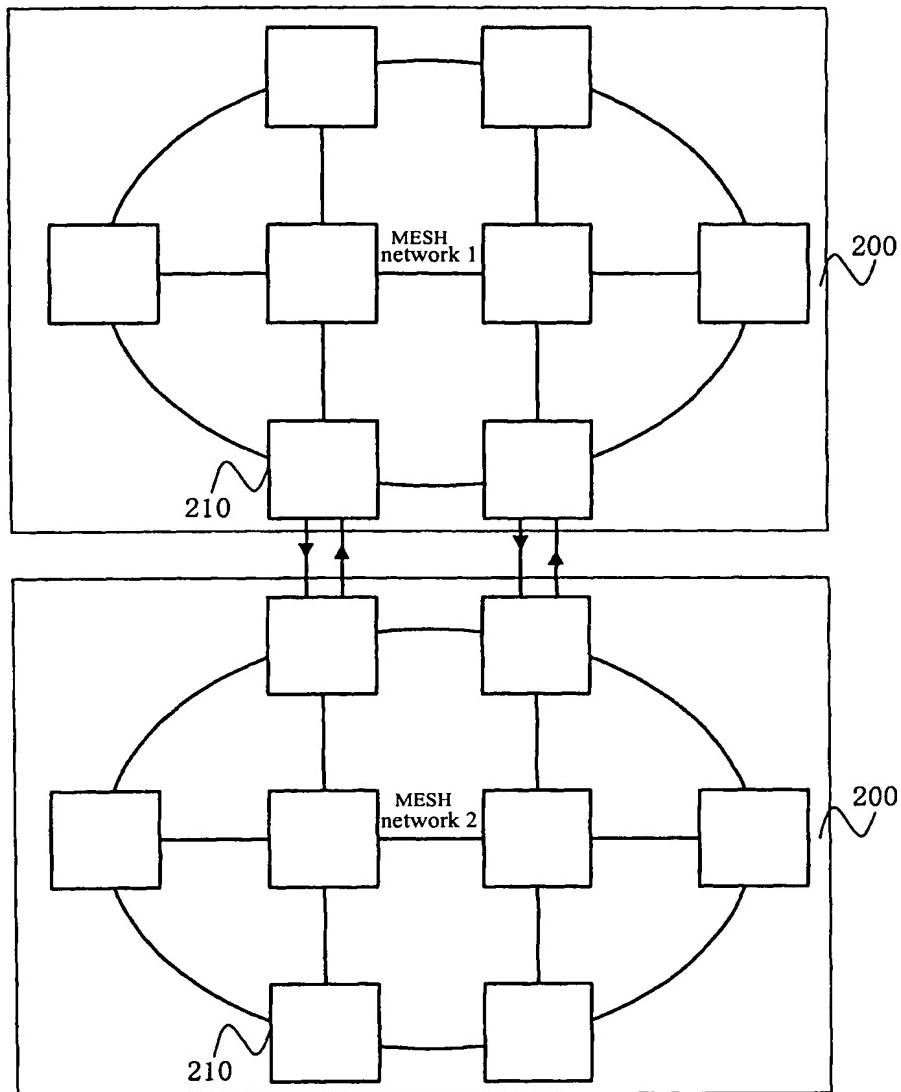
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A dual-node interconnection structure between mesh networks and a ring network: Mesh-RING-Mesh

Fig. 6

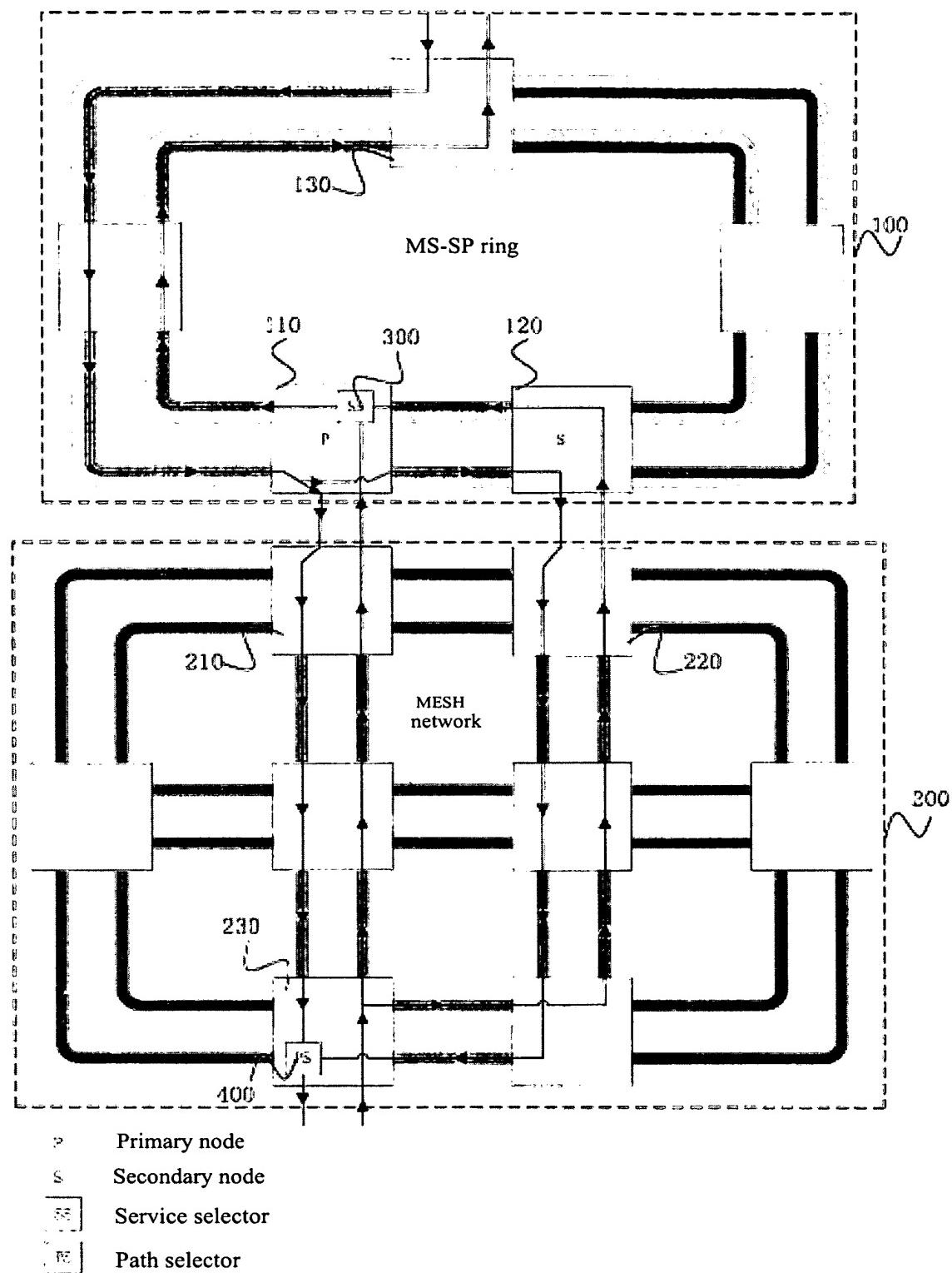
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A dual-node interconnection structure between mesh networks: Mesh-Mesh

Fig. 7

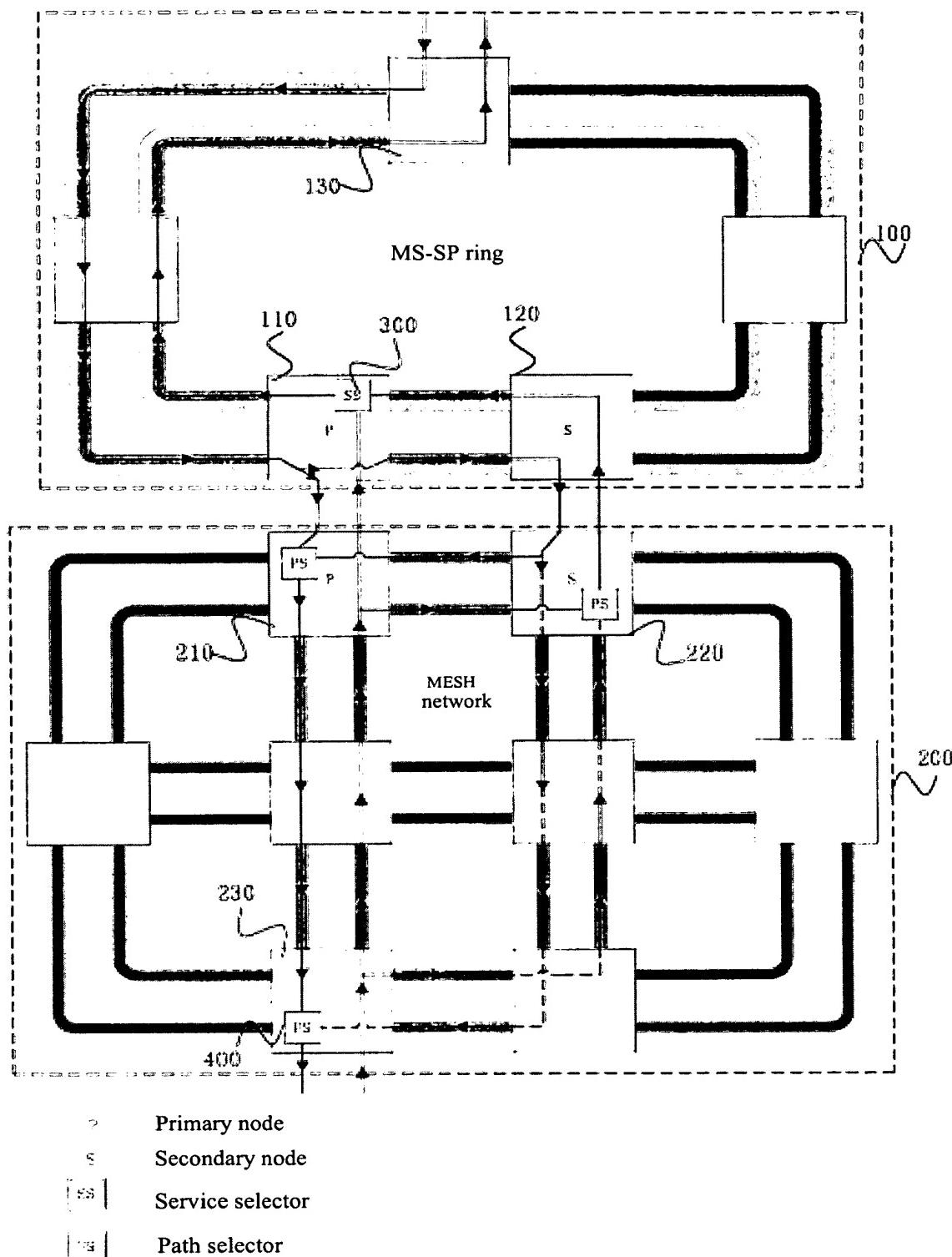
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A dual-node interconnection between a MS-SP ring and a mesh network with SNCP protection

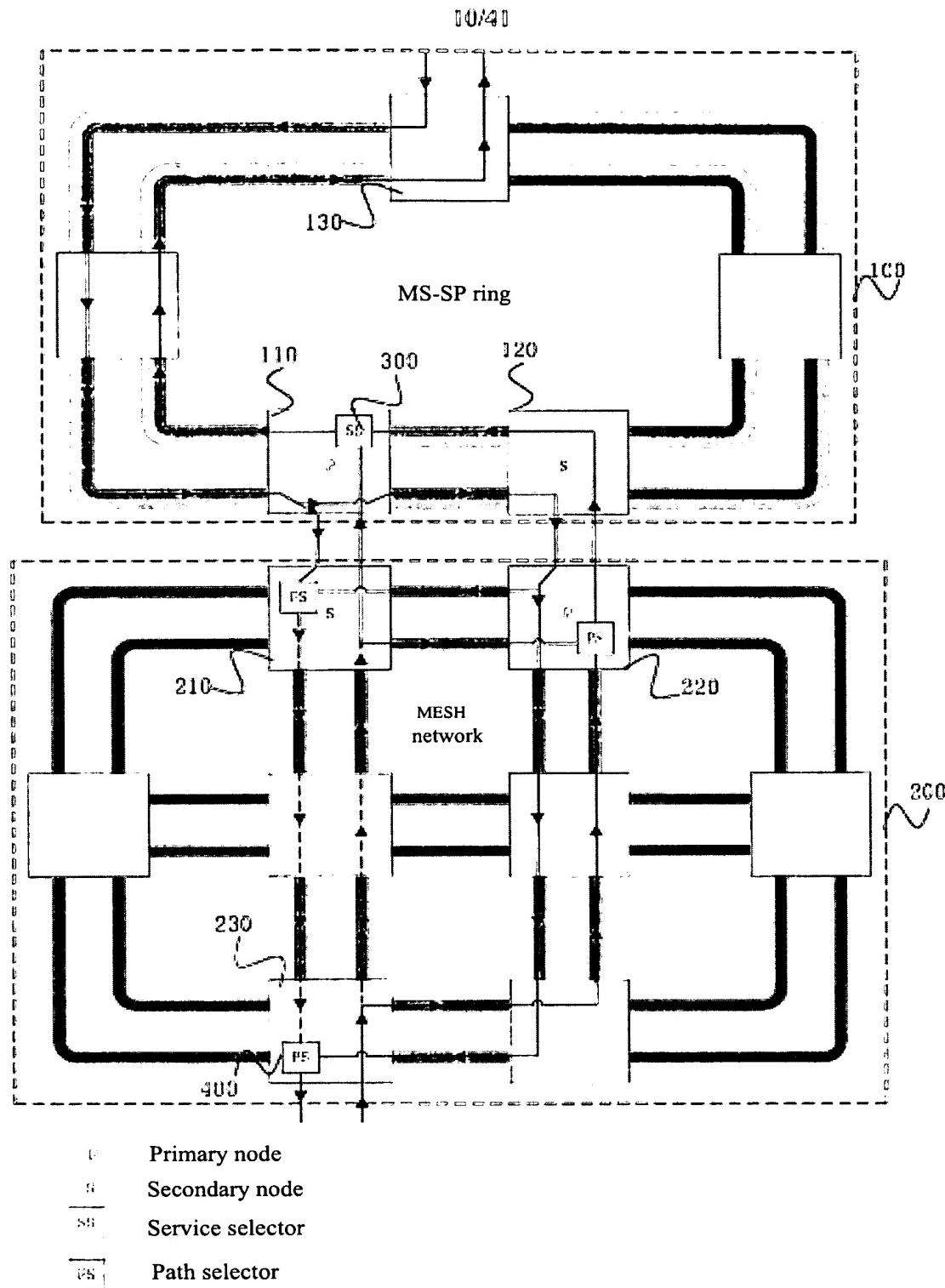
Fig. 8

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The first dual-node interconnection scheme between a MS-SP ring and a mesh network with restoration

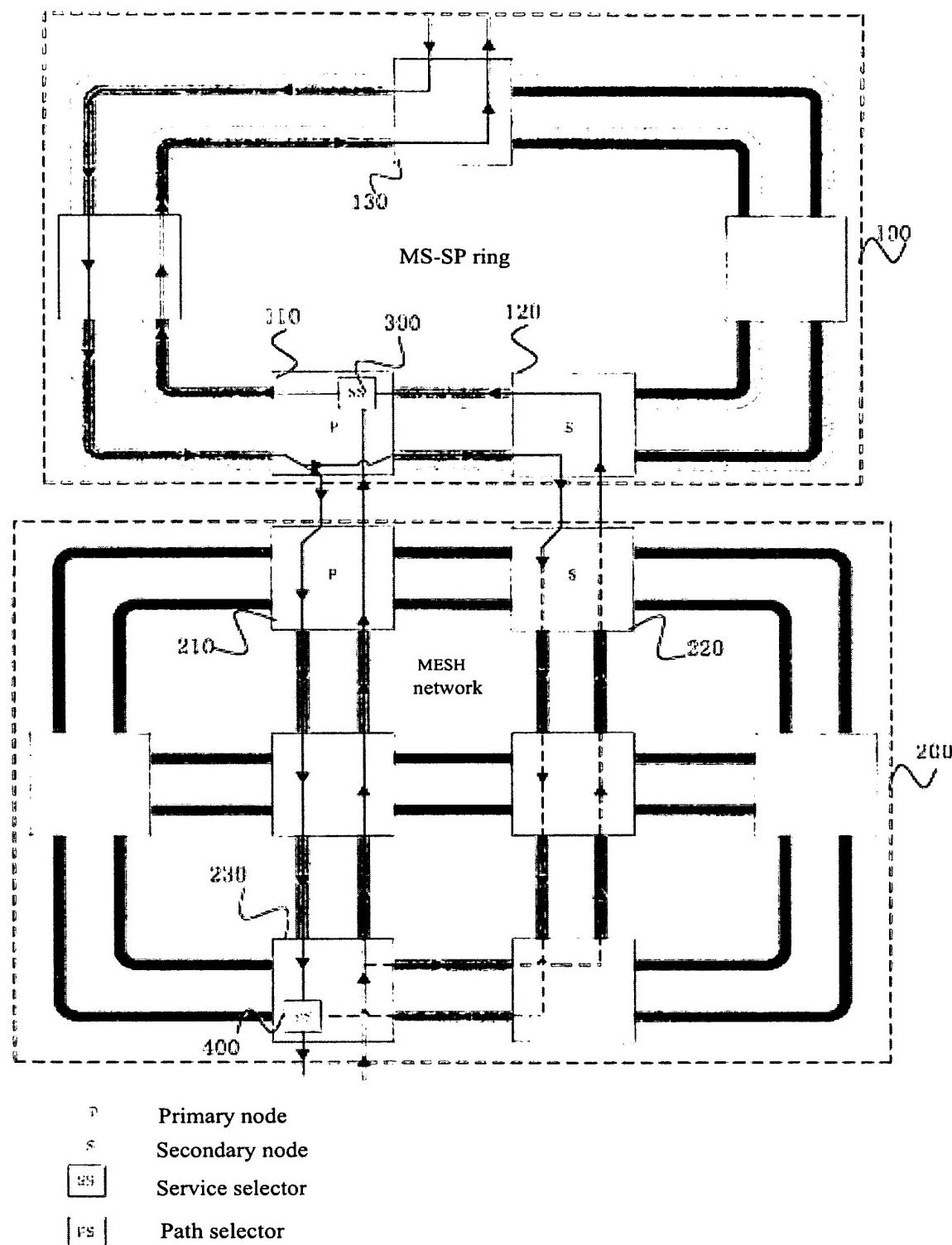
Fig. 9



The first dual-node interconnection scheme between a mesh network with restoration and a MS-SP ring (the selection of the primary node in the mesh network is different)

Fig. 10

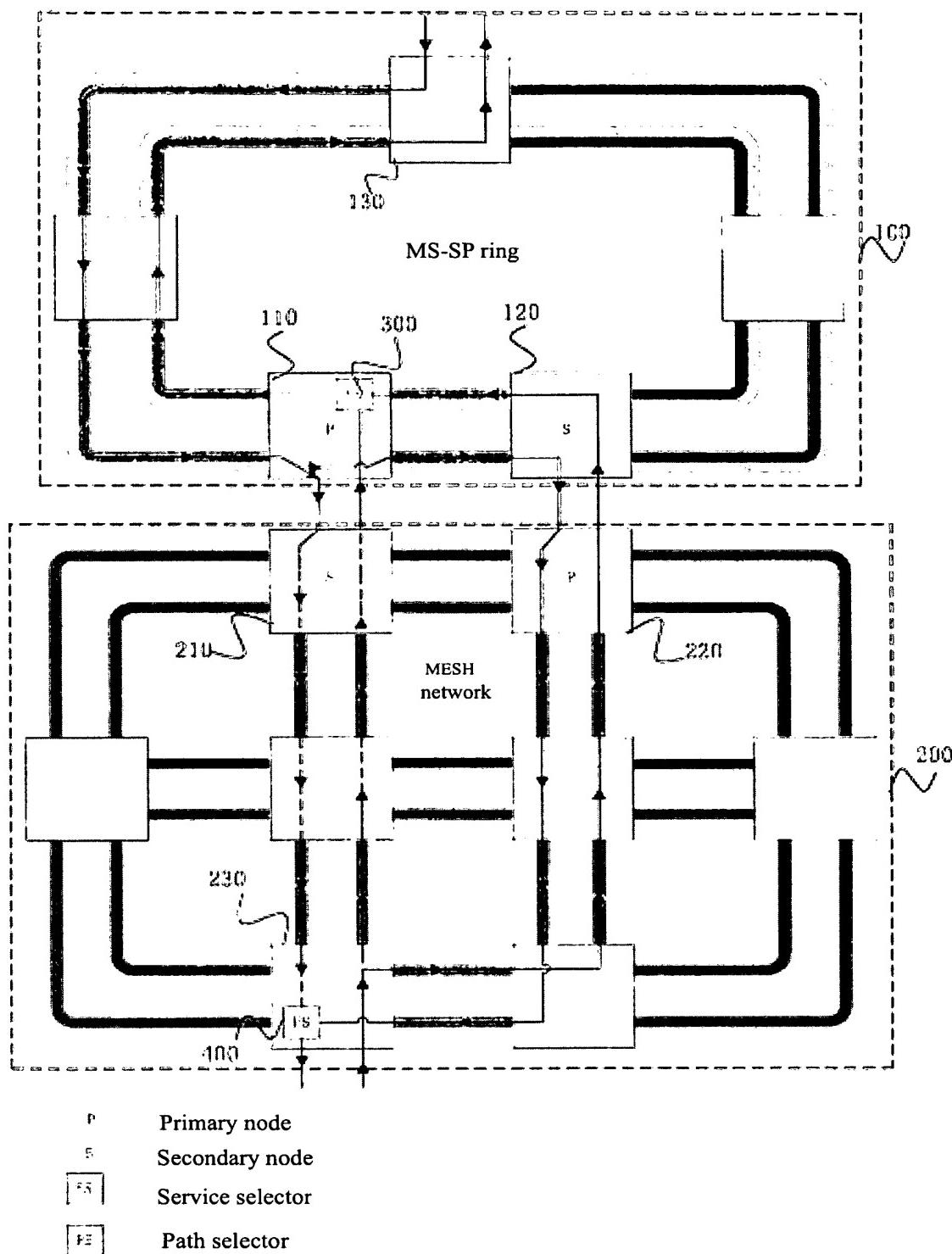
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The second dual-node interconnection scheme between a mesh network with restoration and a MS-SP ring

Fig. 11

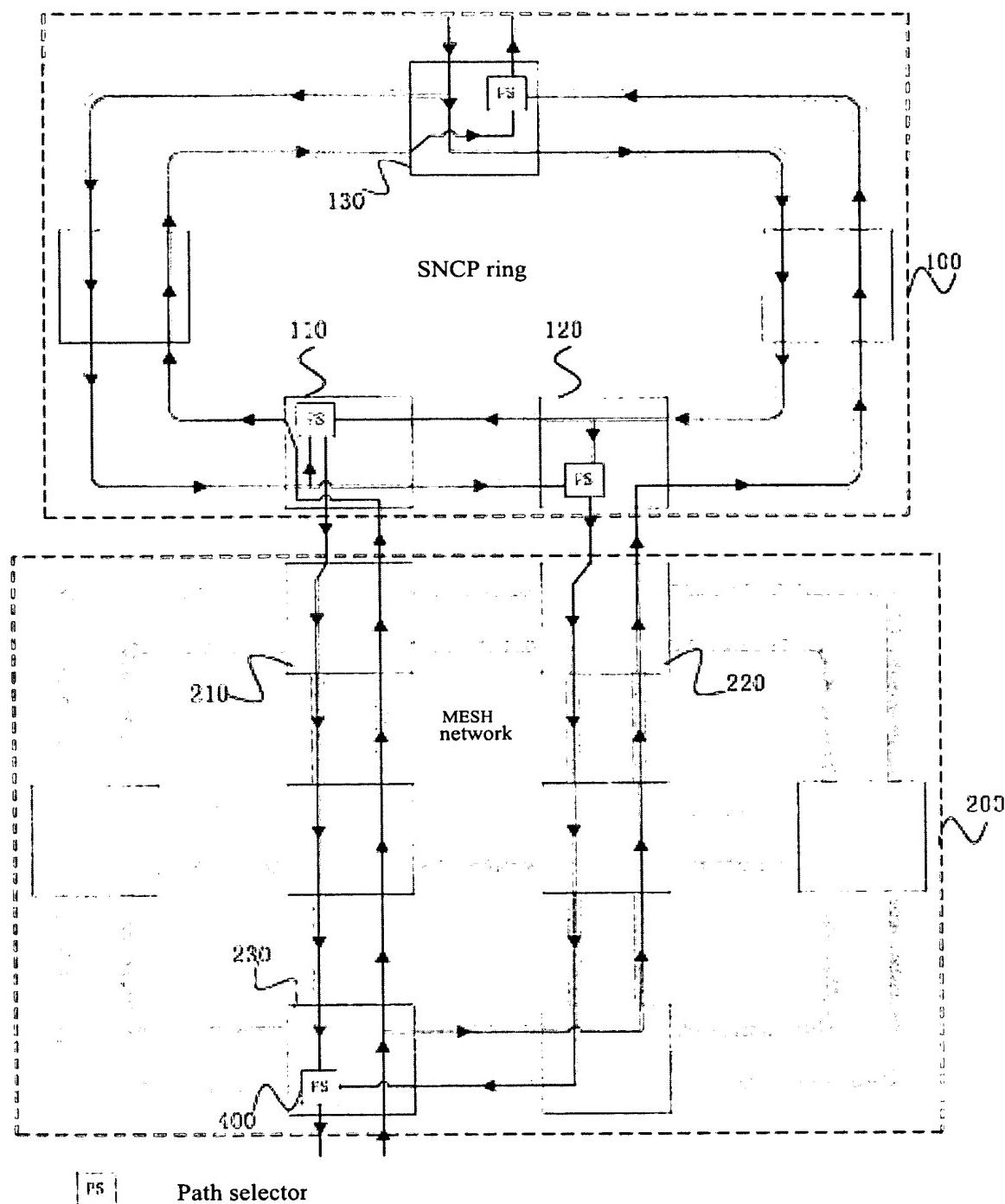
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The second dual-node interconnection scheme between a mesh network with restoration and a MS-SP ring (the selection of the primary node in the mesh network is different)

Fig. 12

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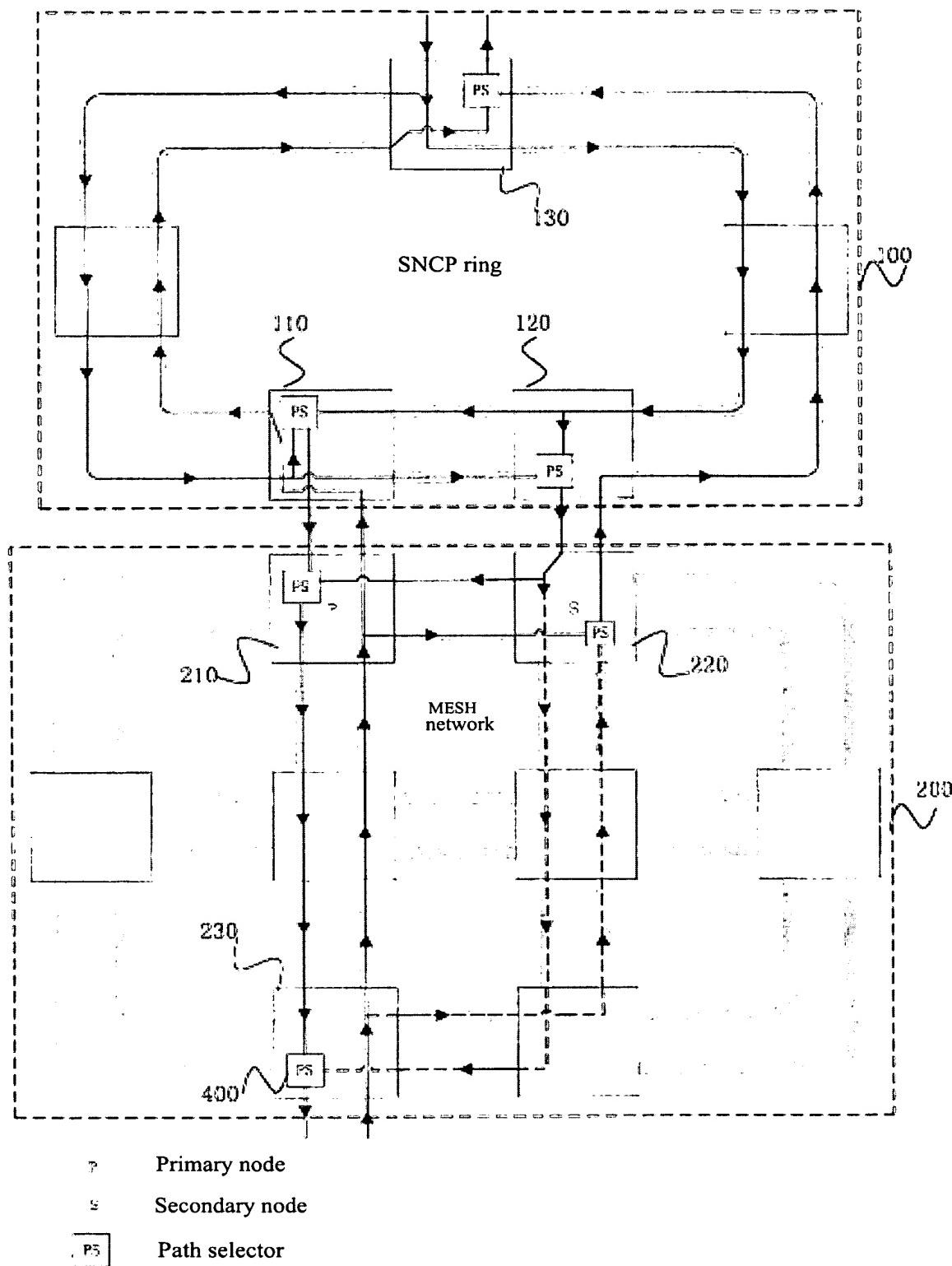


Path selector

A dual-node interconnection between a mesh network and a ring network both with SNCF

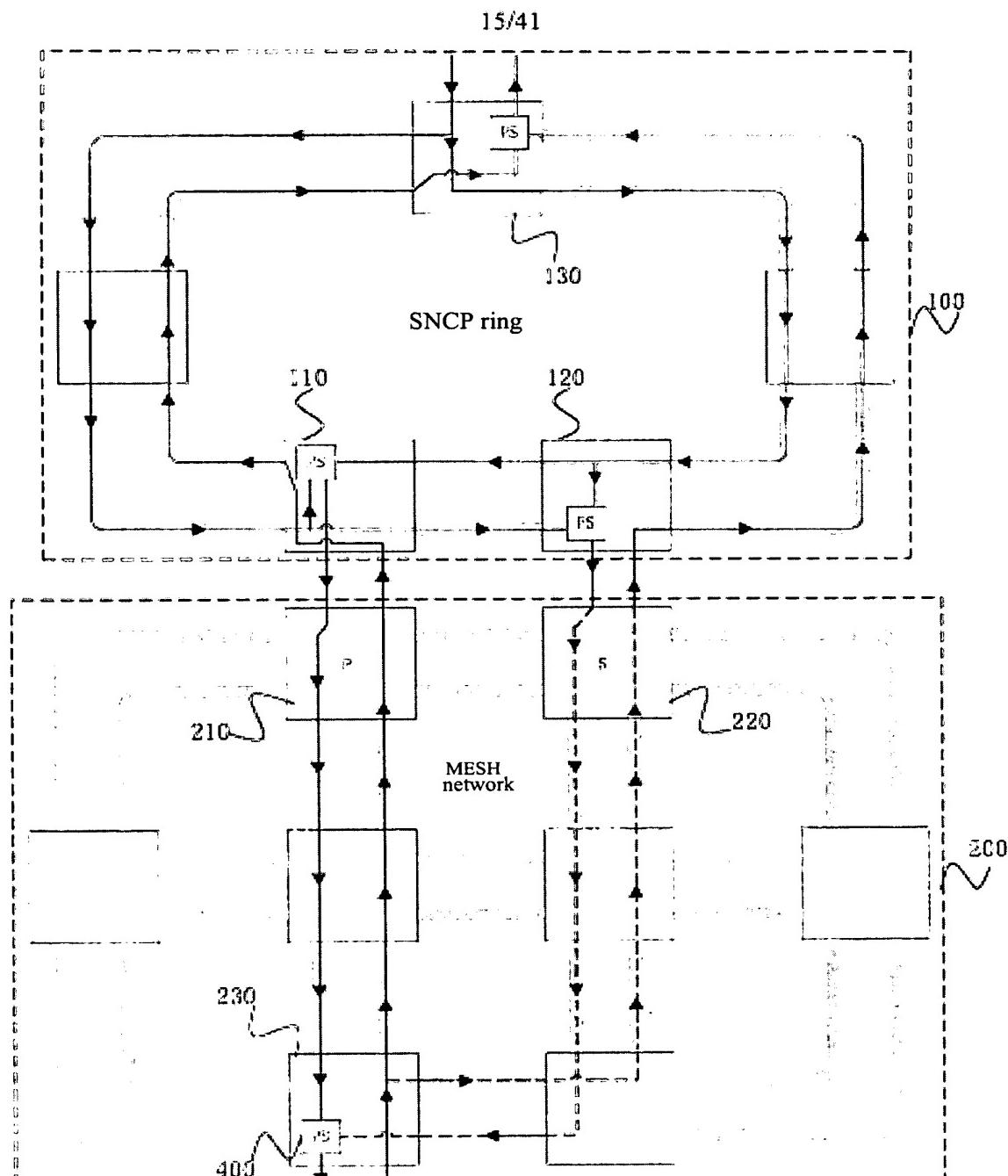
Fig. 13

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The first dual-node interconnection scheme between a mesh network with restoration and a SNCP ring

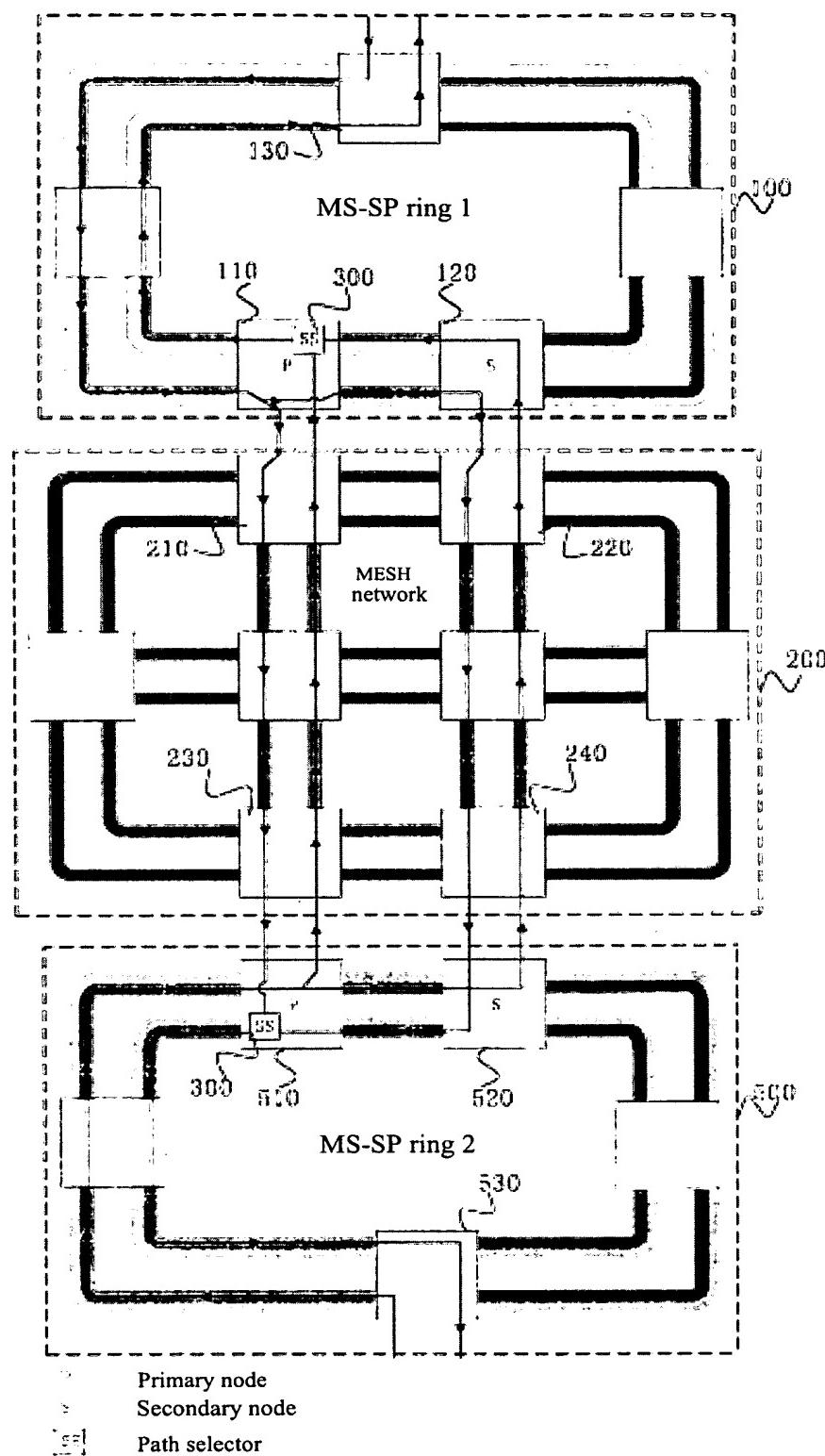
Fig. 14



The second dual-node interconnection scheme between a mesh network with restoration and a SNCP ring

Fig. 15

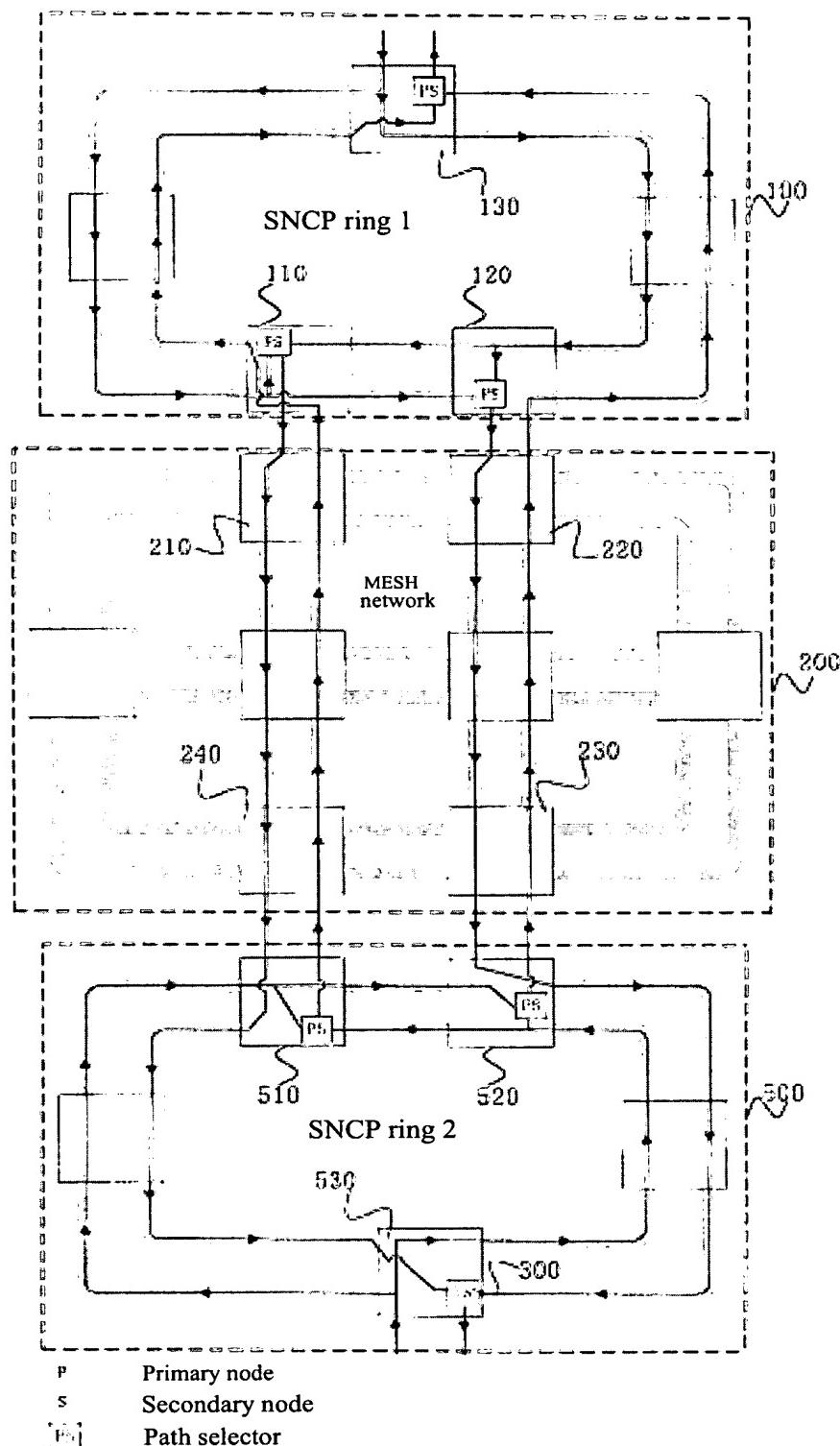
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A dual-node interconnection between MS-SP rings and a mesh network without protection in a ring-mesh-ring situation

Fig. 16

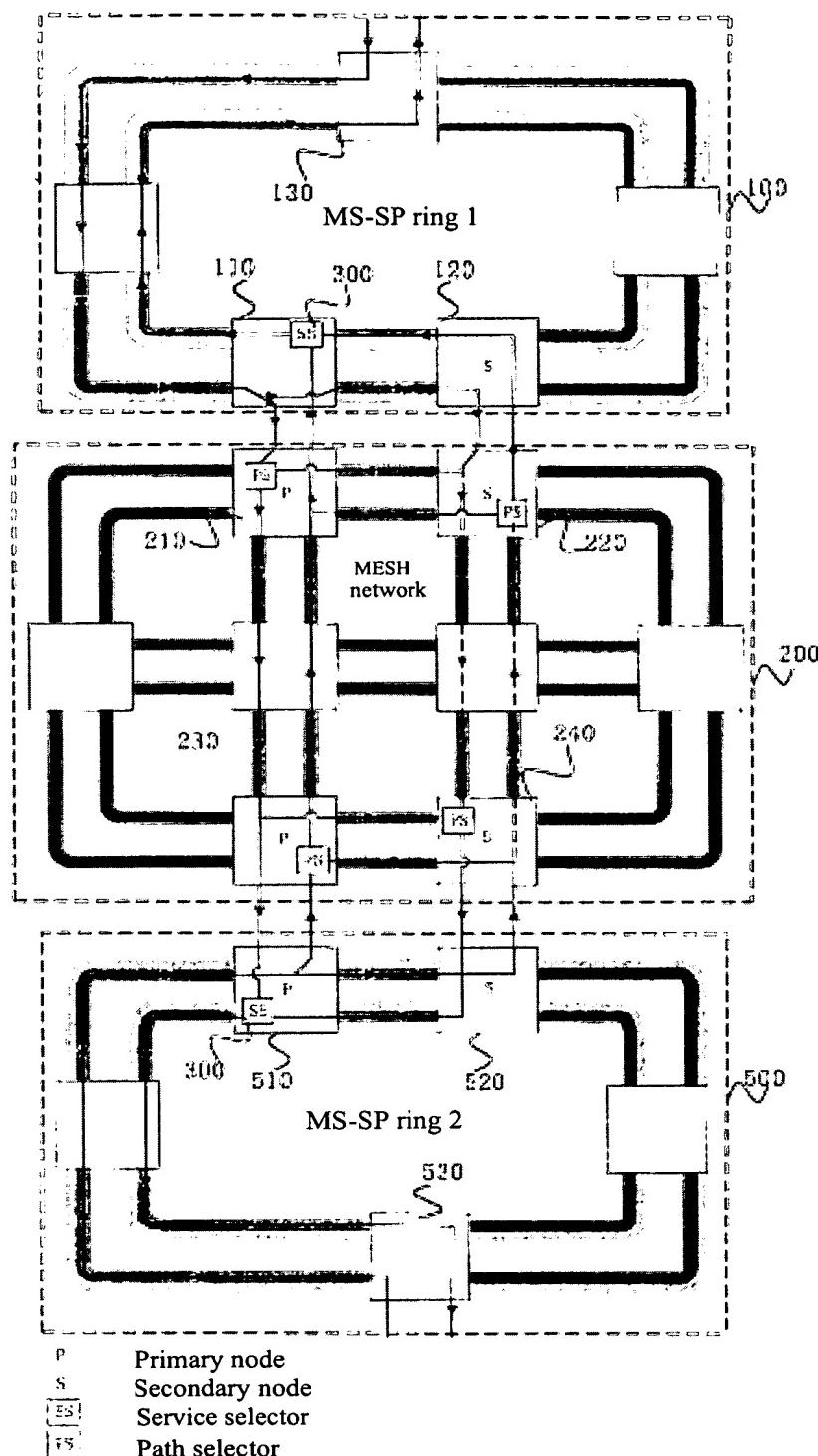
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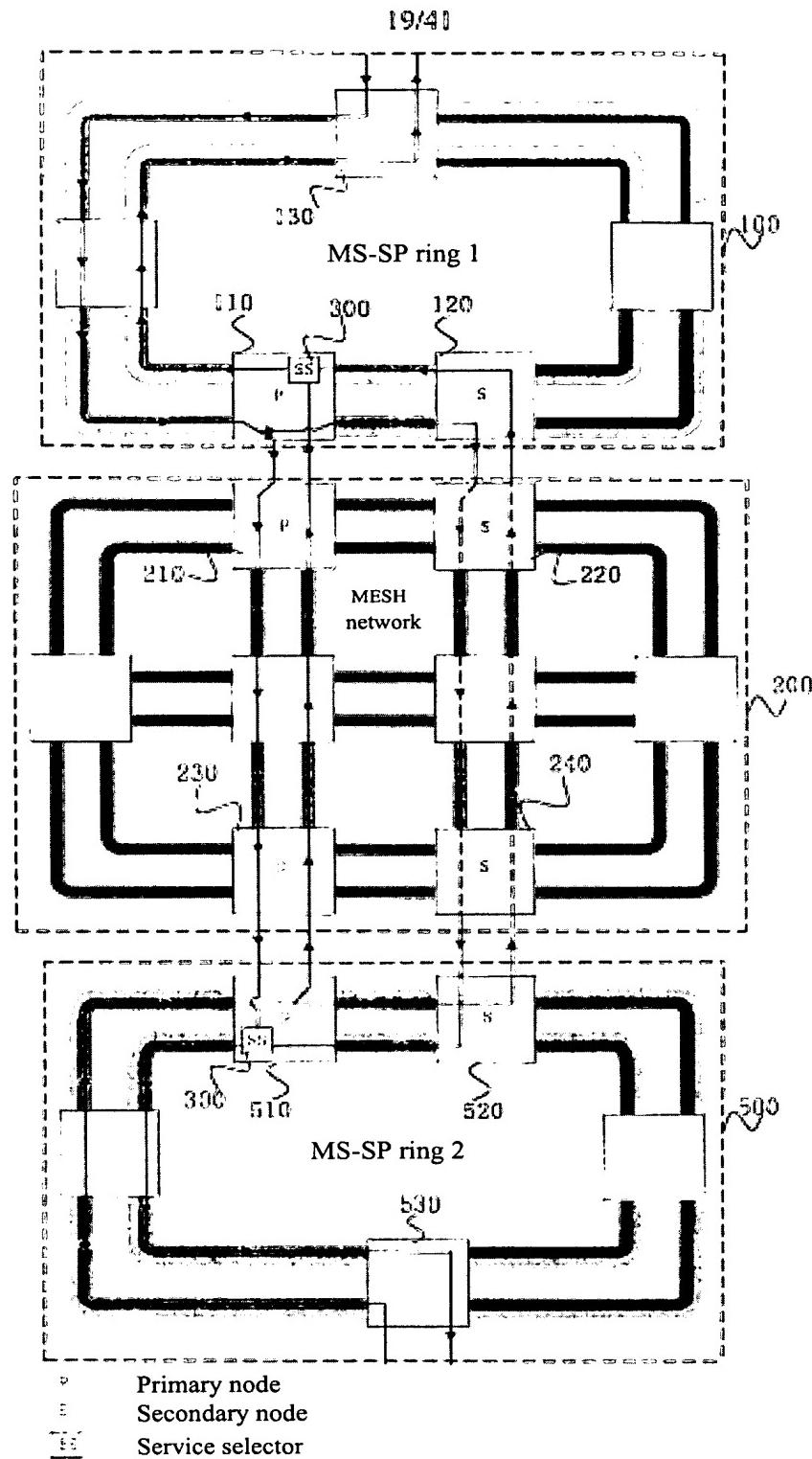


A dual-node interconnection between SNCP rings and a mesh network without protection in a ring-mesh-ring situation

Fig. 17

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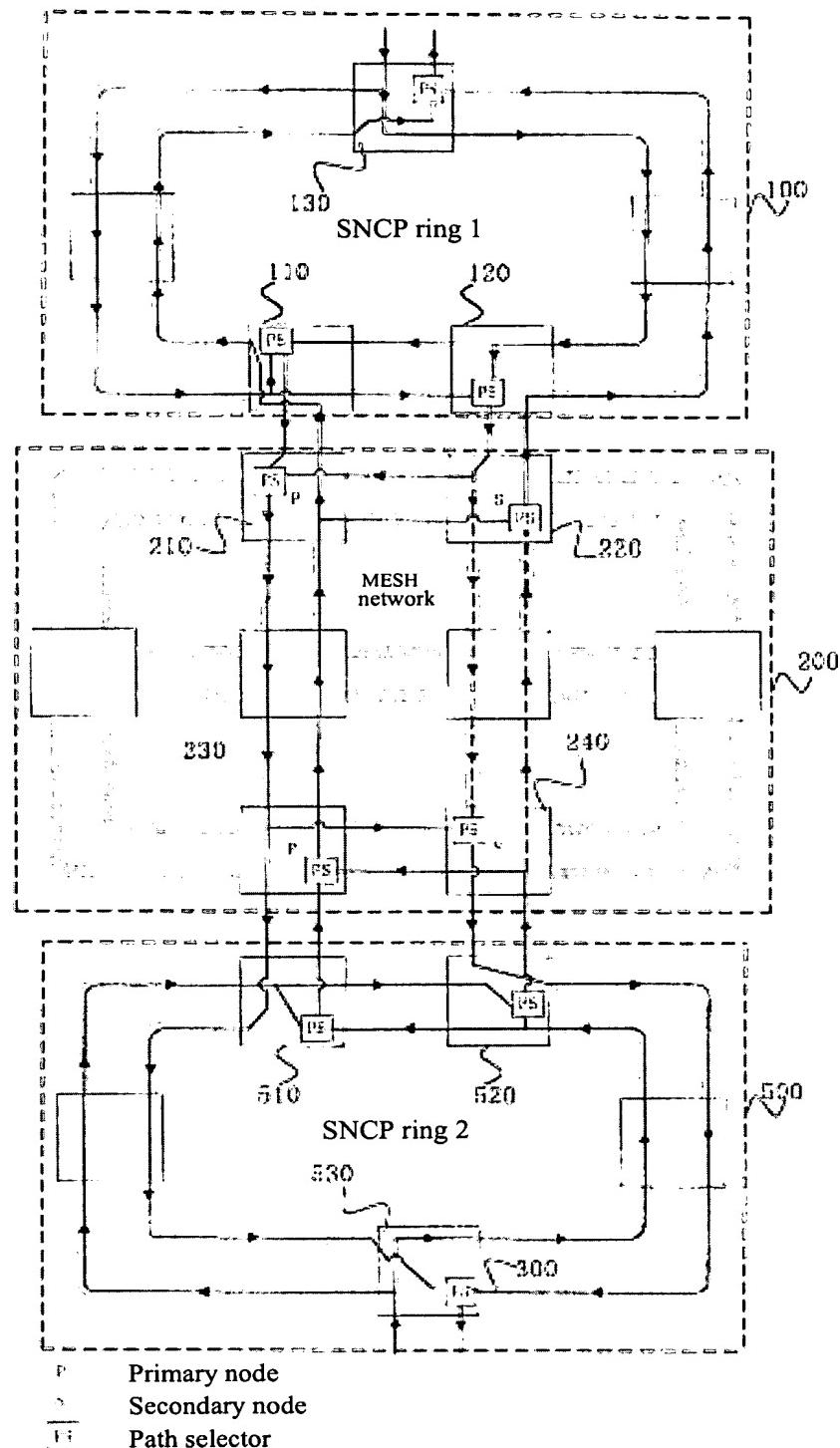




The second dual-node interconnection scheme between MS-SP rings and a mesh network with restoration in a ring-mesh-ring situation

Fig. 19

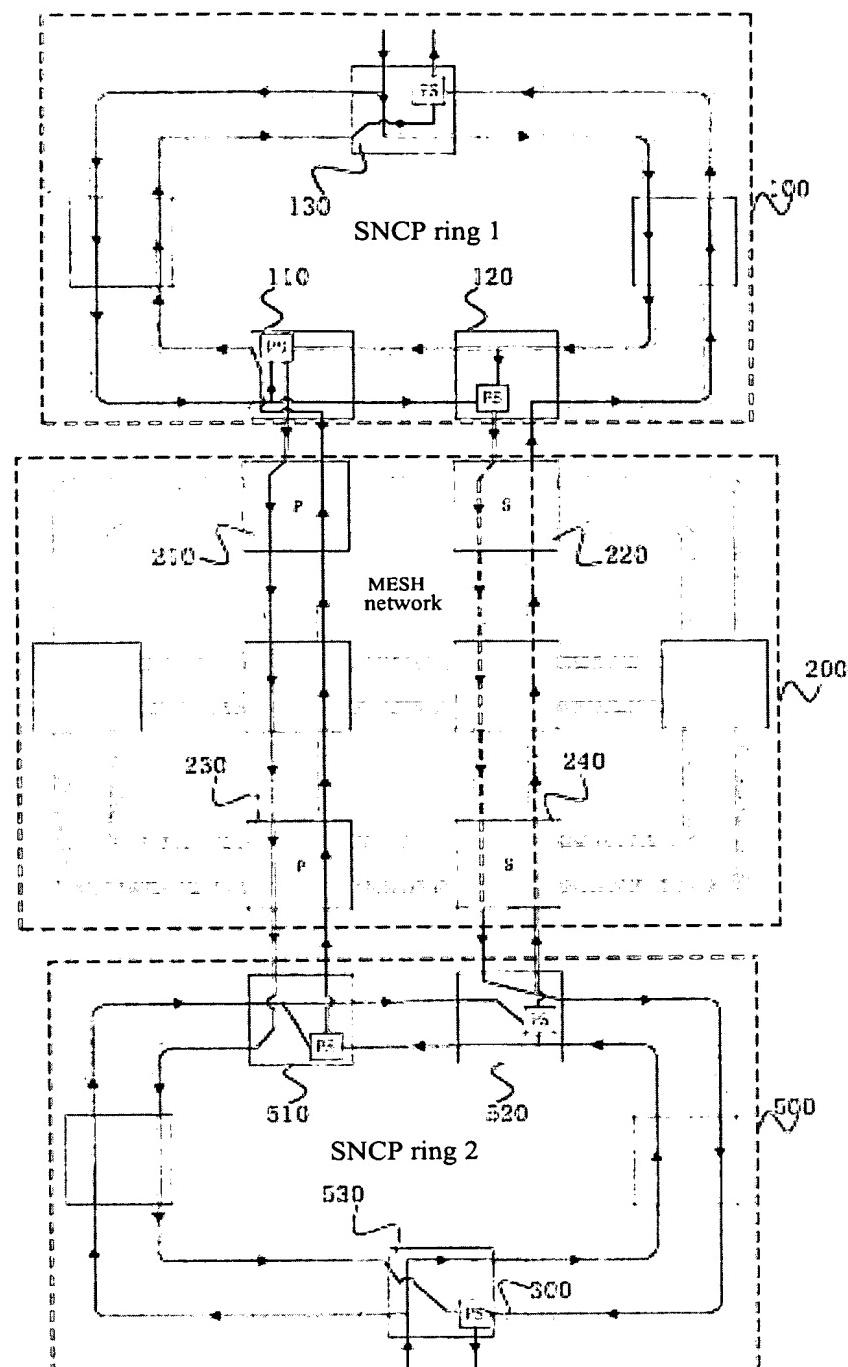
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The first dual-node interconnection scheme between SNCP rings and a mesh network with restoration in a ring-mesh-ring situation

Fig 20

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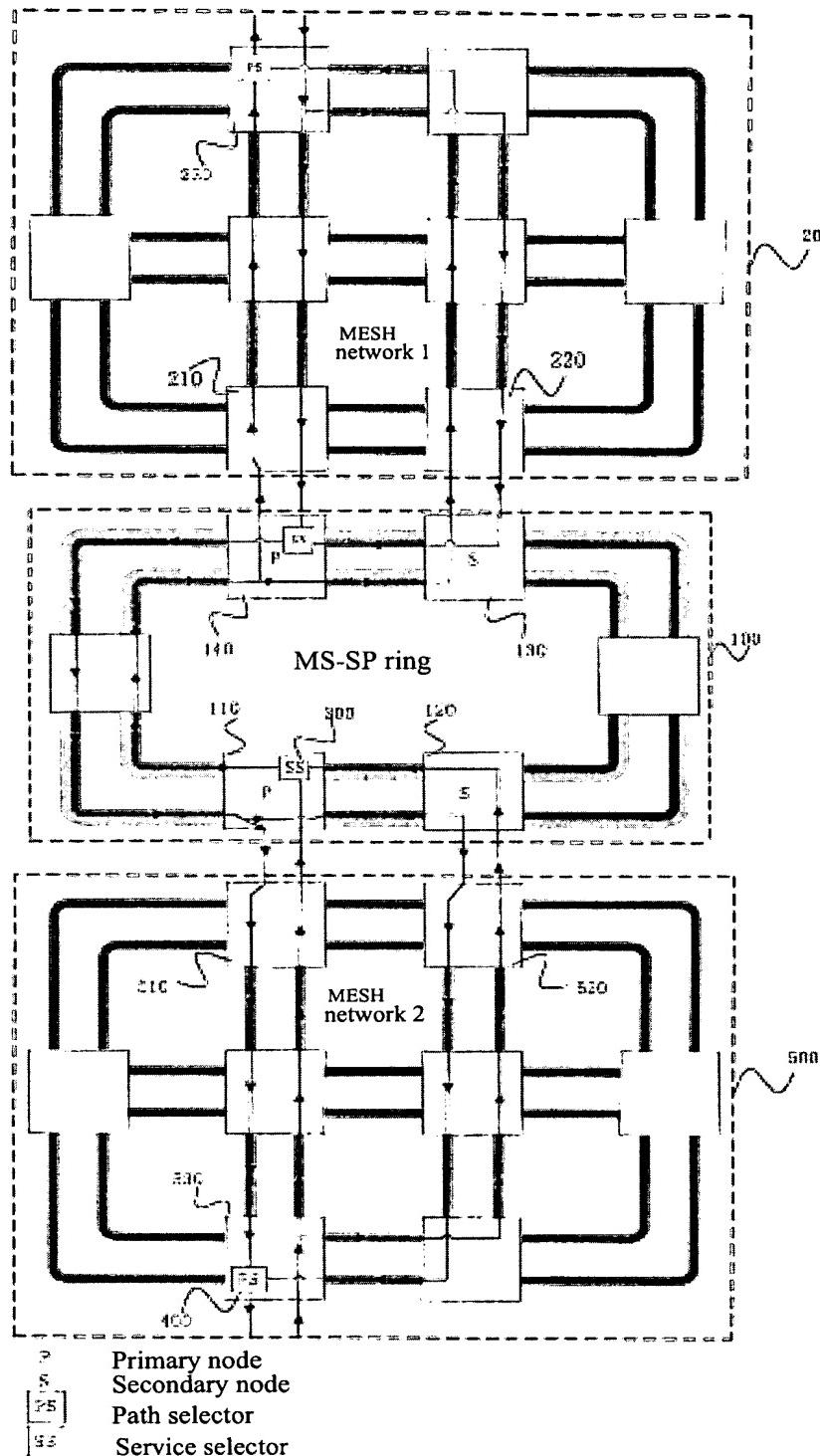


P Primary node
 S Secondary node
 PS Path selector

The second dual-node interconnection scheme between SNCP rings and a mesh network with restoration in a ring-mesh-ring situation

Fig. 21

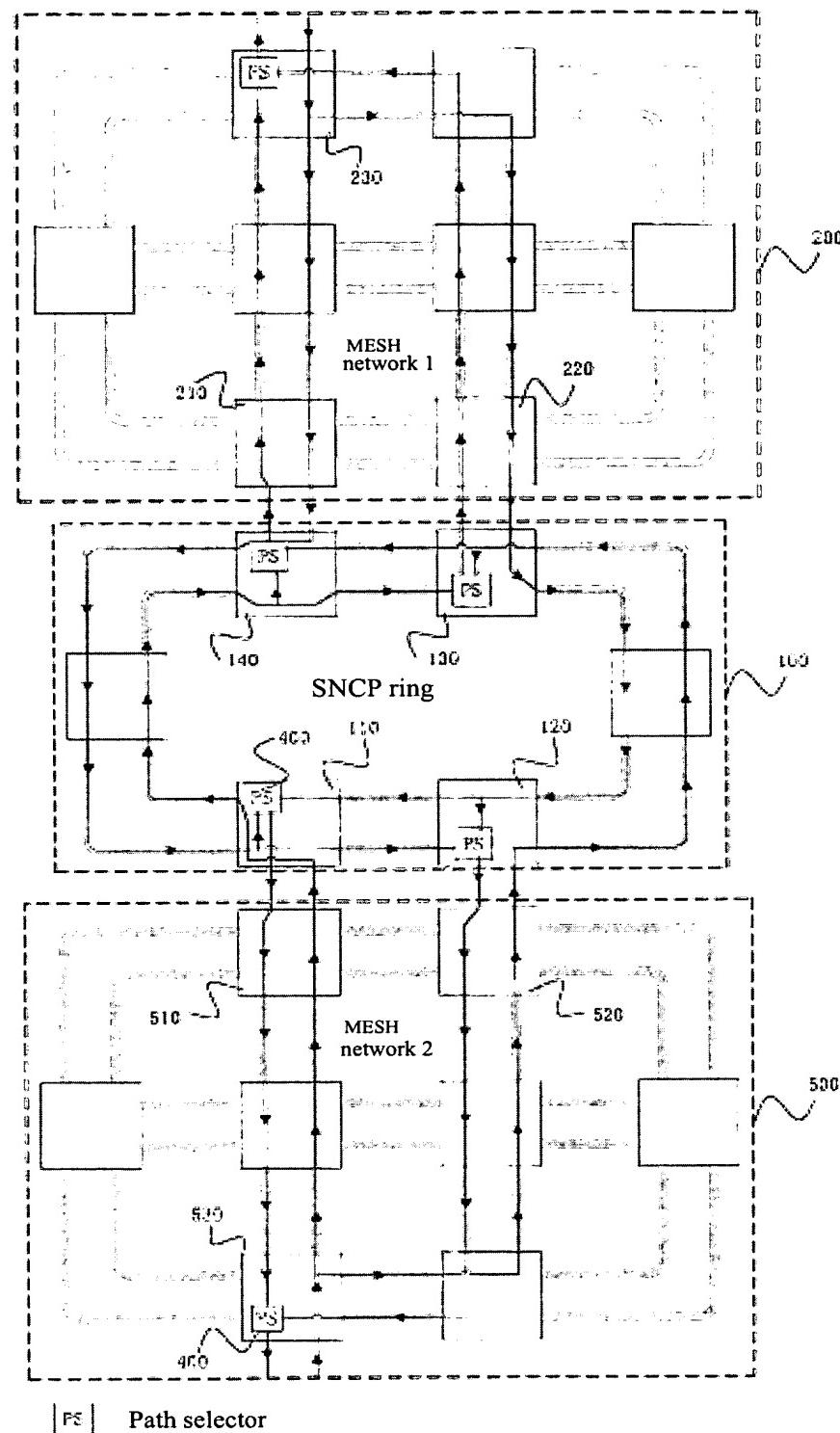
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A dual-node interconnection between a MS-SP ring and mesh networks with SNCP in a mesh-ring-mesh situation

Fig. 22

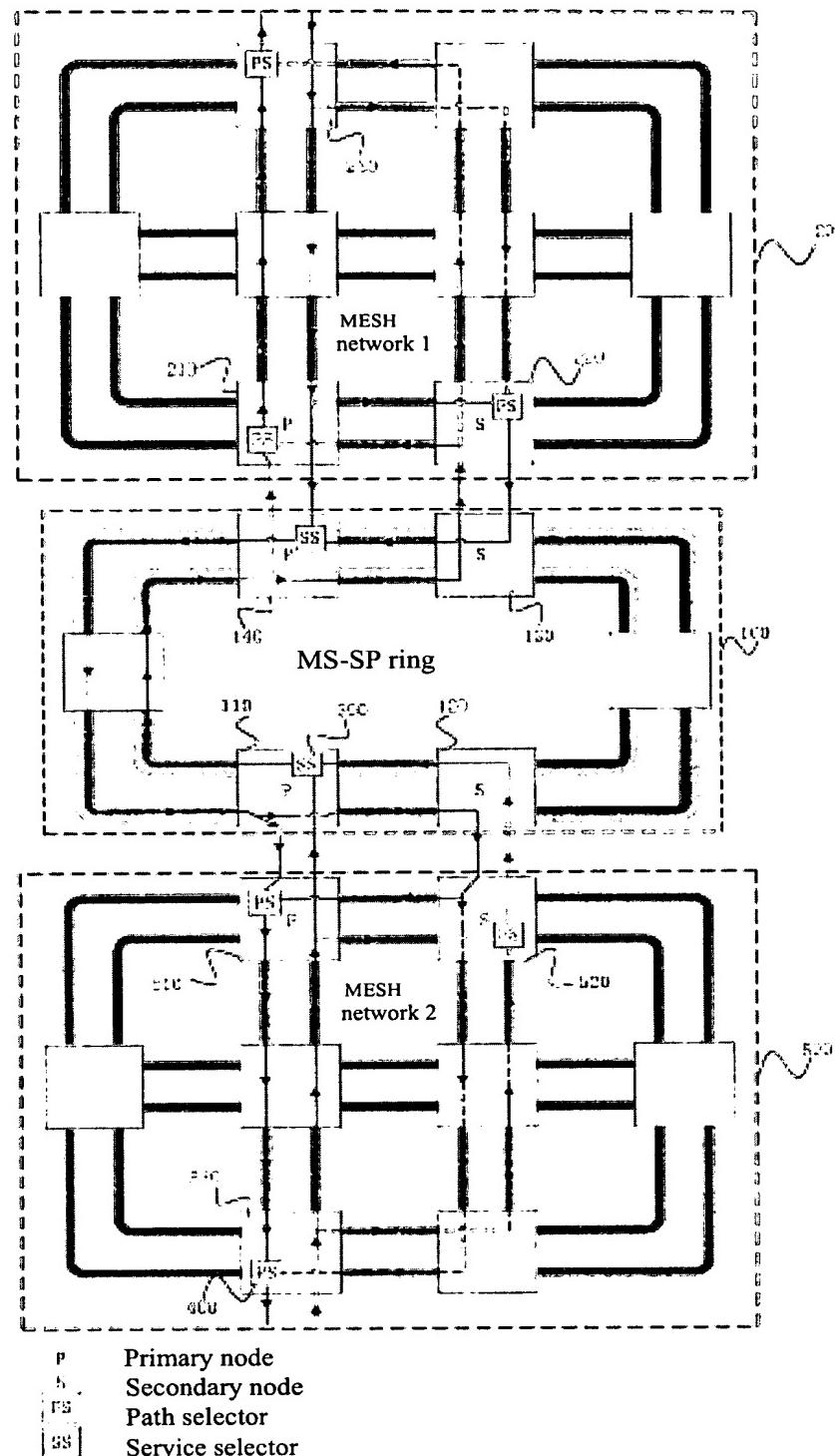
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A dual-node interconnection between a SNCP ring and mesh networks with SNCP in a mesh-ring-mesh situation

Fig. 23

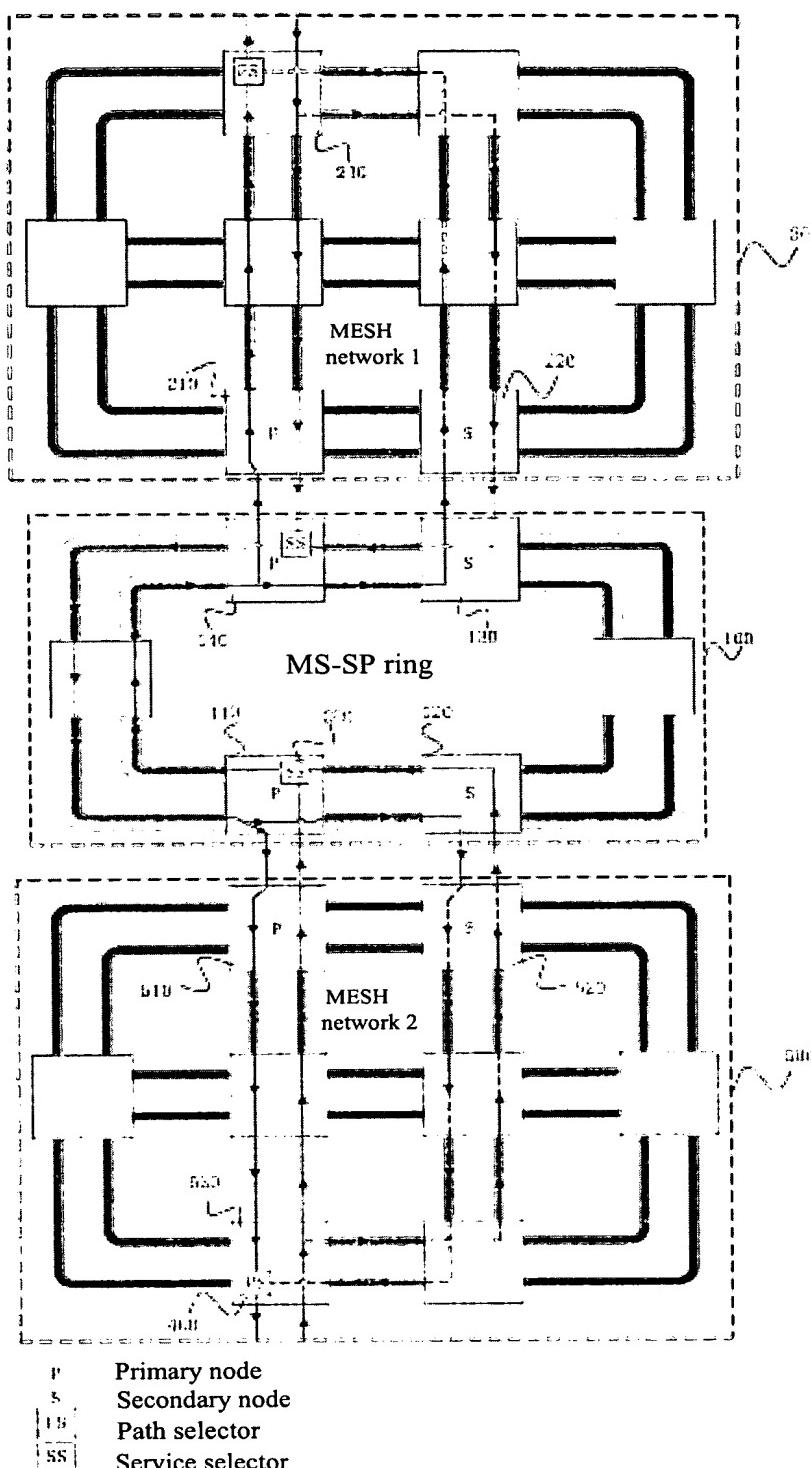
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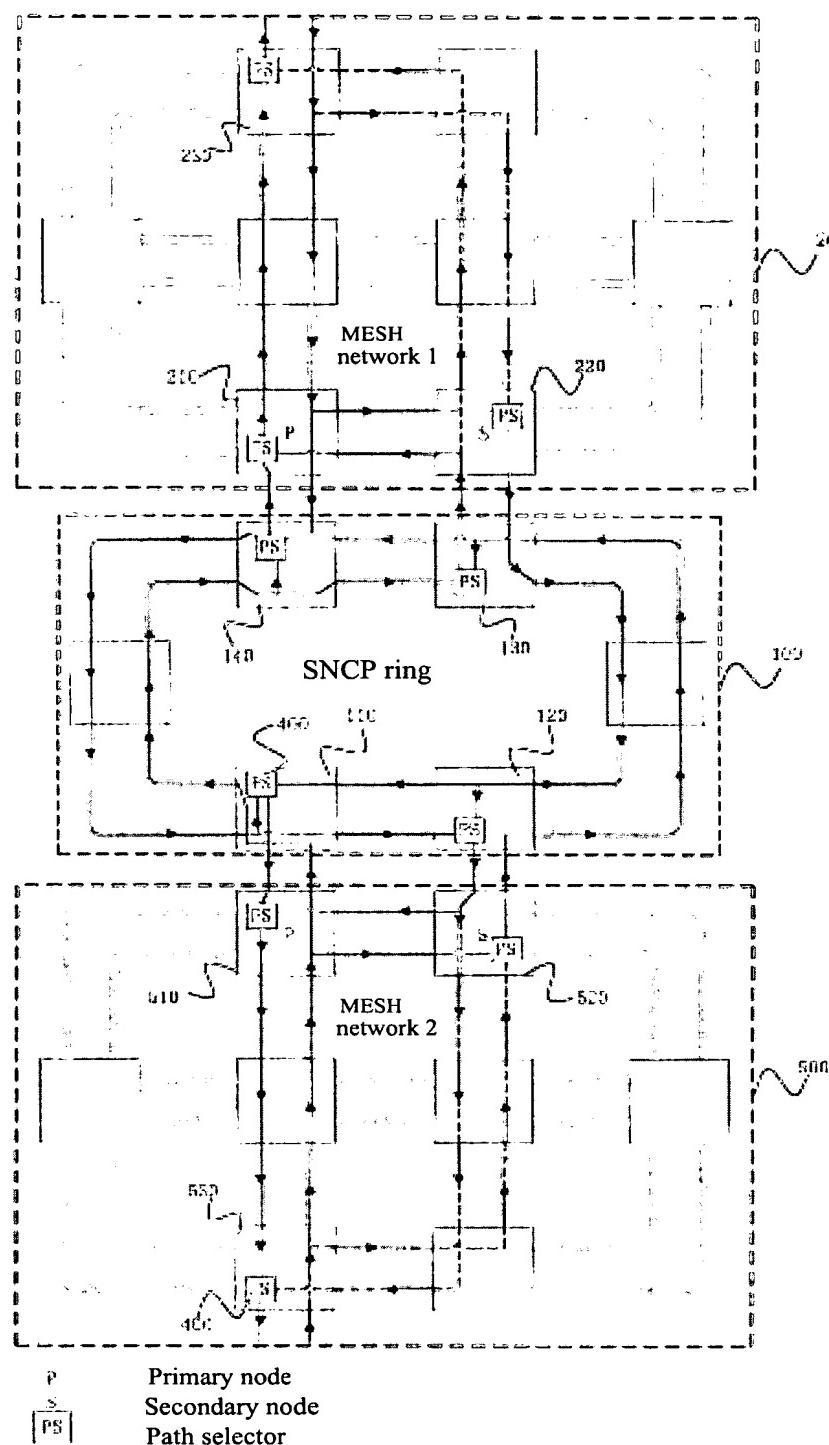
The first dual-node interconnection scheme between a MS-SP ring and mesh networks with restoration in a mesh-ring-mesh situation

Fig. 24

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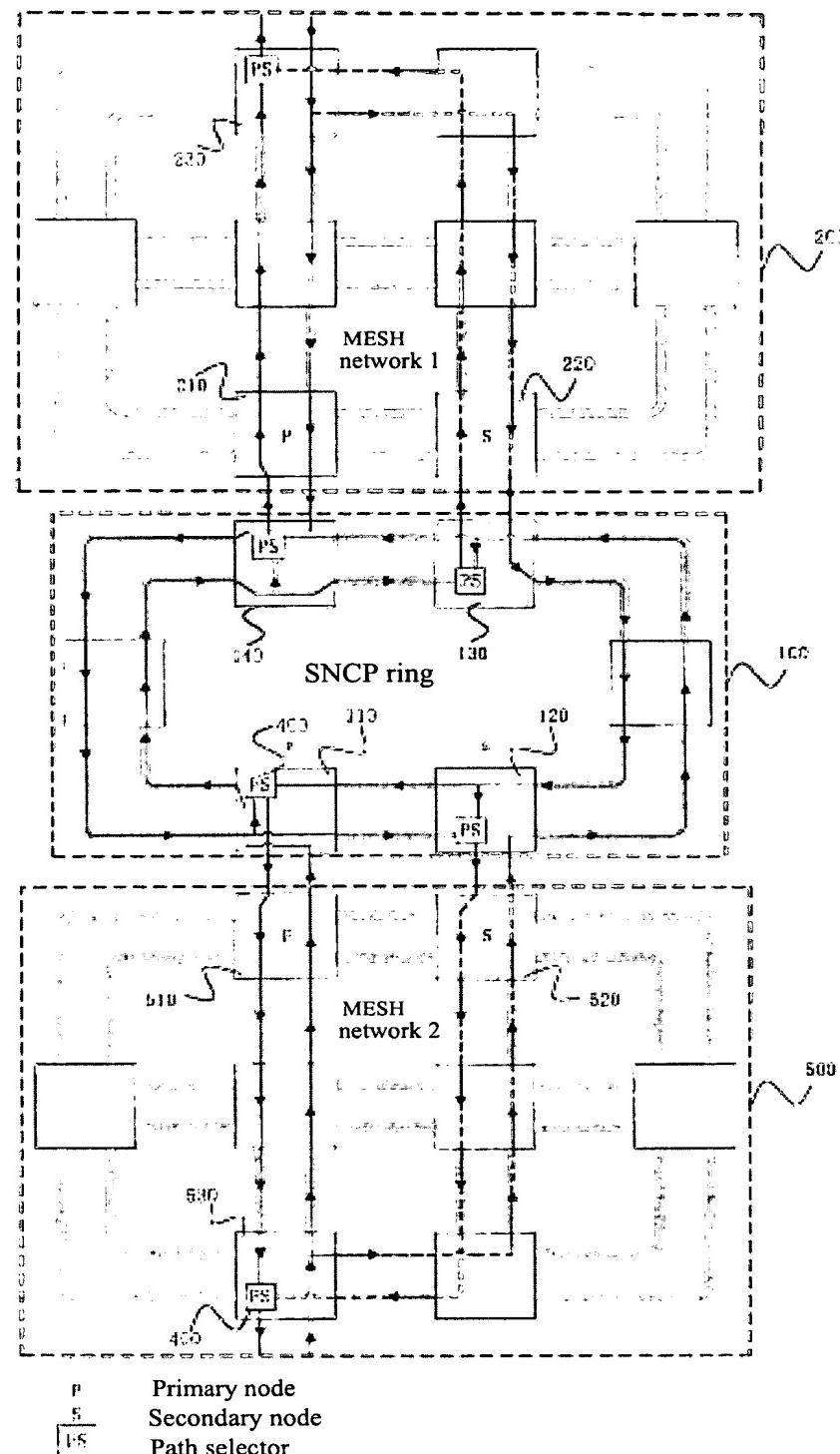
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The first dual-node interconnection scheme between a SNCP ring and mesh networks with restoration in a mesh-ring-mesh situation

Fig. 26

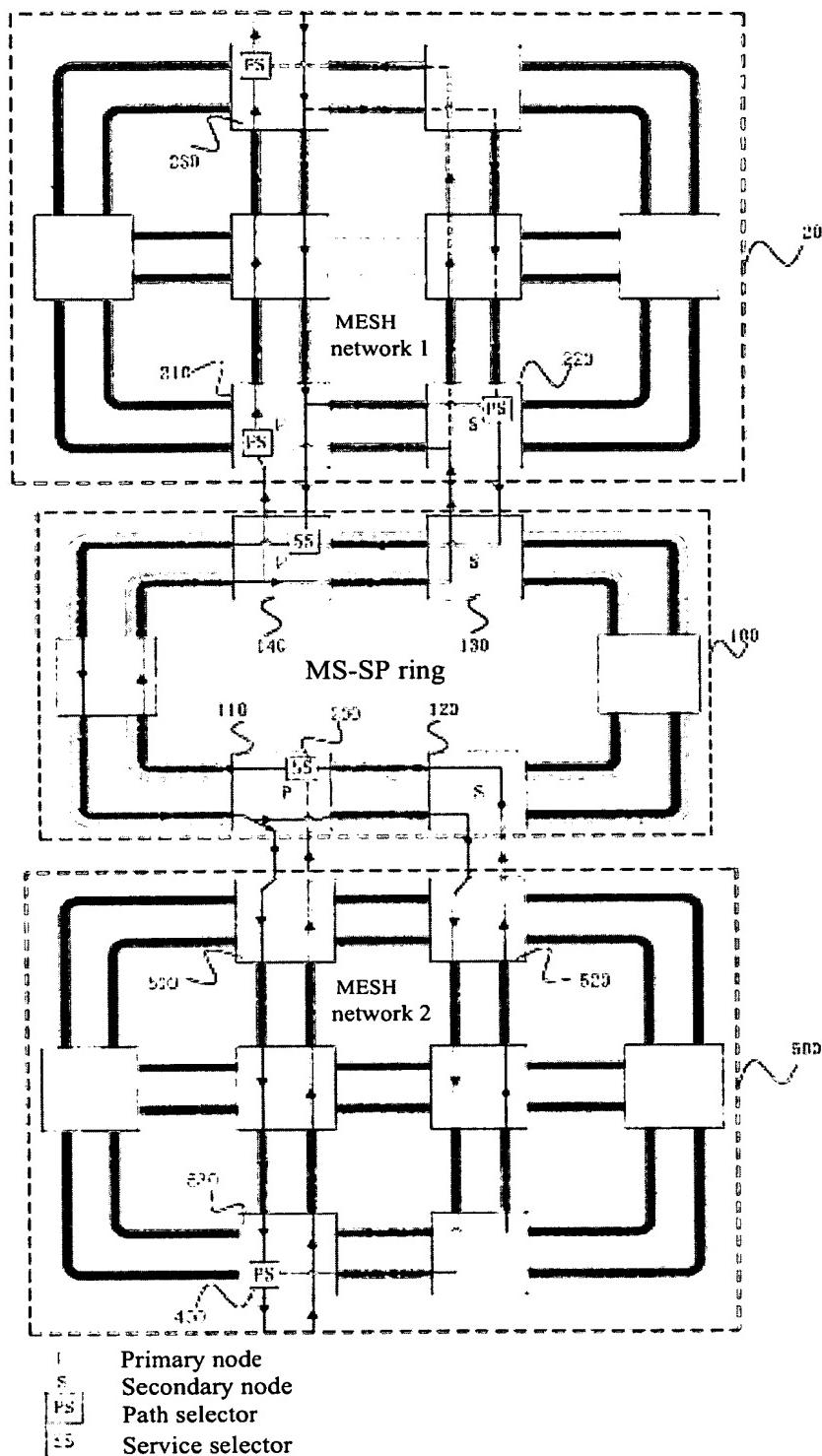
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The second dual-node interconnection scheme between a SNCP ring and mesh networks with restoration in a mesh-ring-mesh situation

Fig. 27

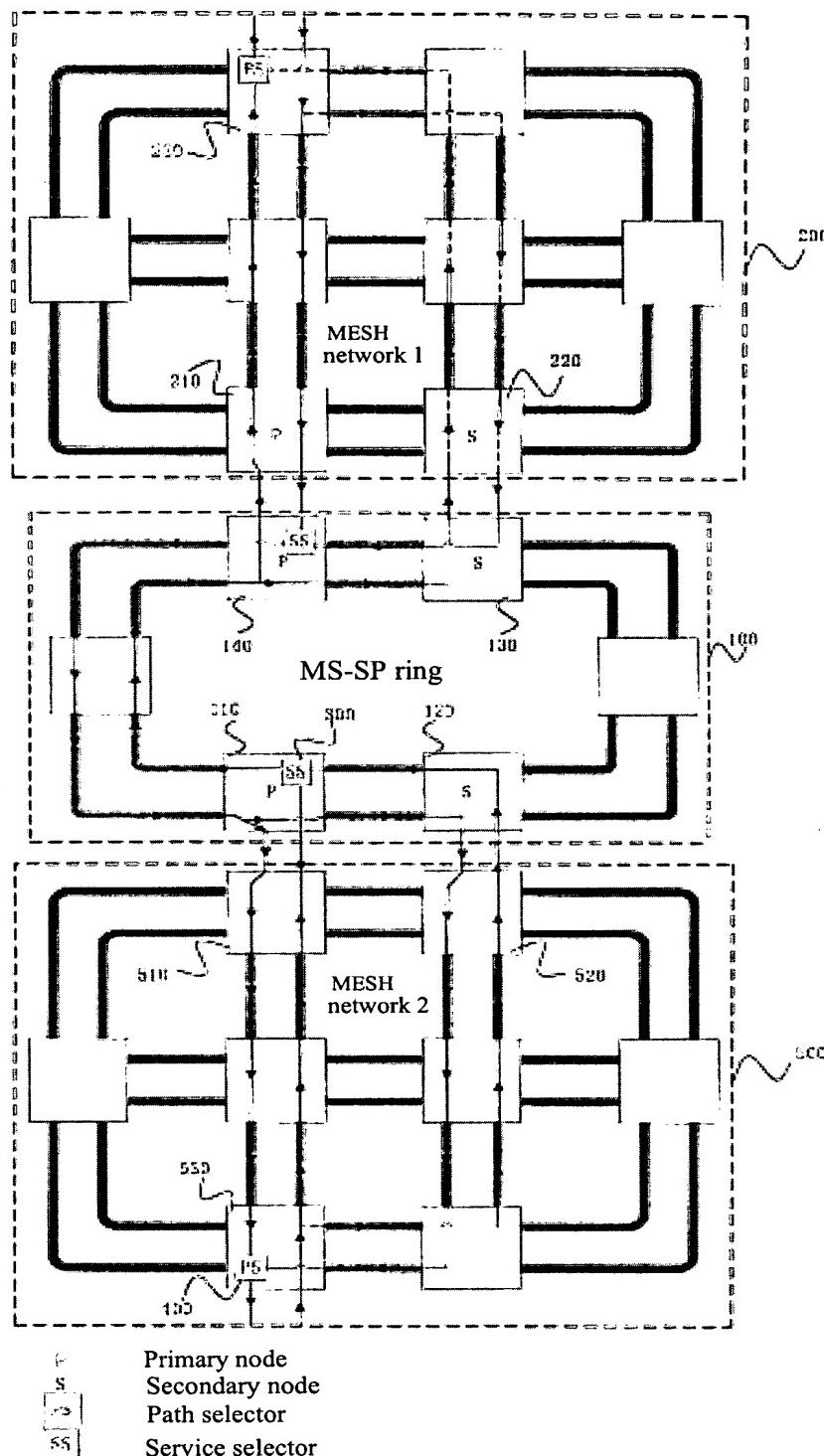
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The first dual-node interconnection scheme between a mesh network with restoration and a mesh network with SNCP via a MS-SP ring in a mesh-ring-mesh situation

Fig. 28

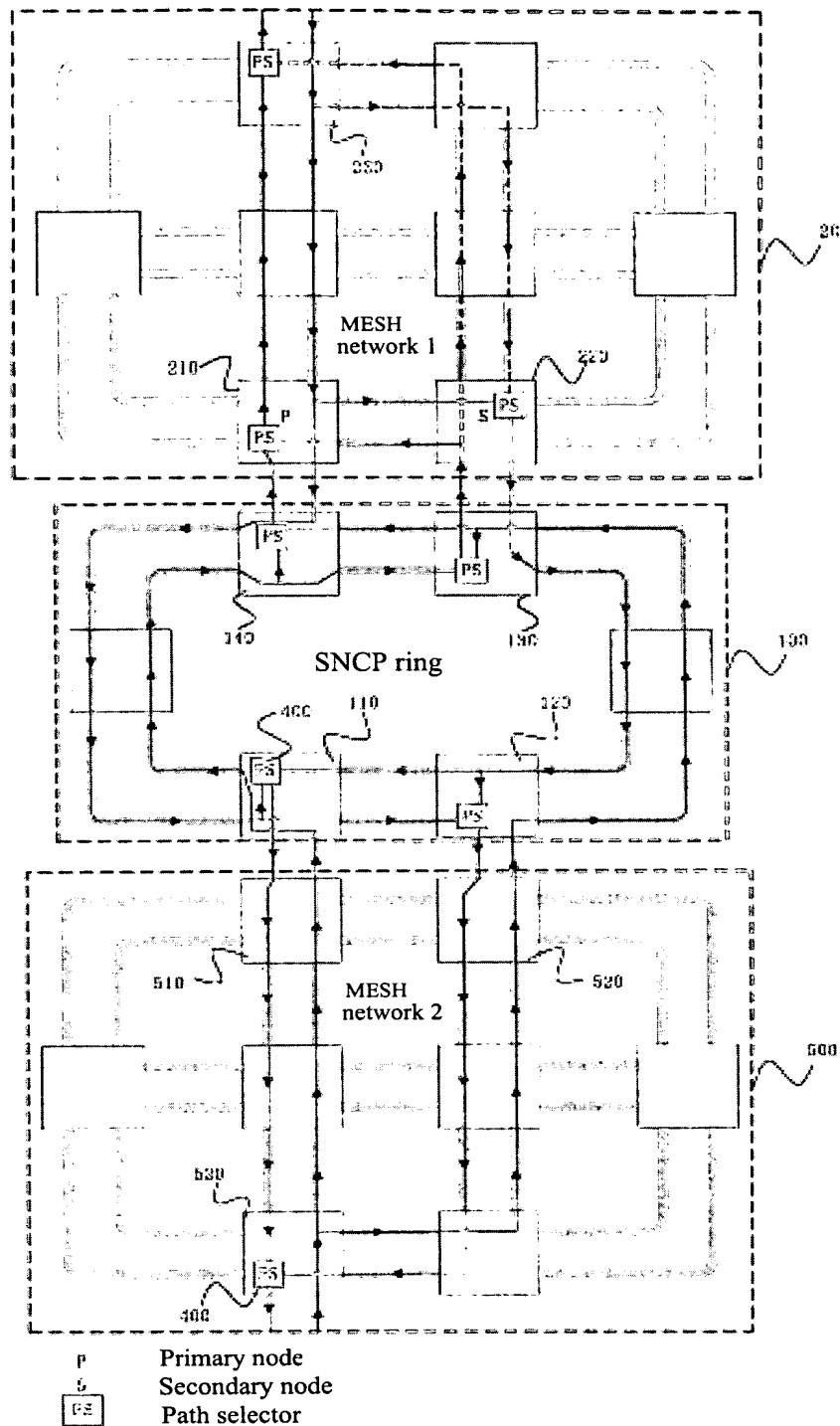
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The second dual-node interconnection scheme between a mesh network with restoration and a mesh network with SNCP via a MS-SP ring in a mesh-ring-mesh situation

Fig. 29

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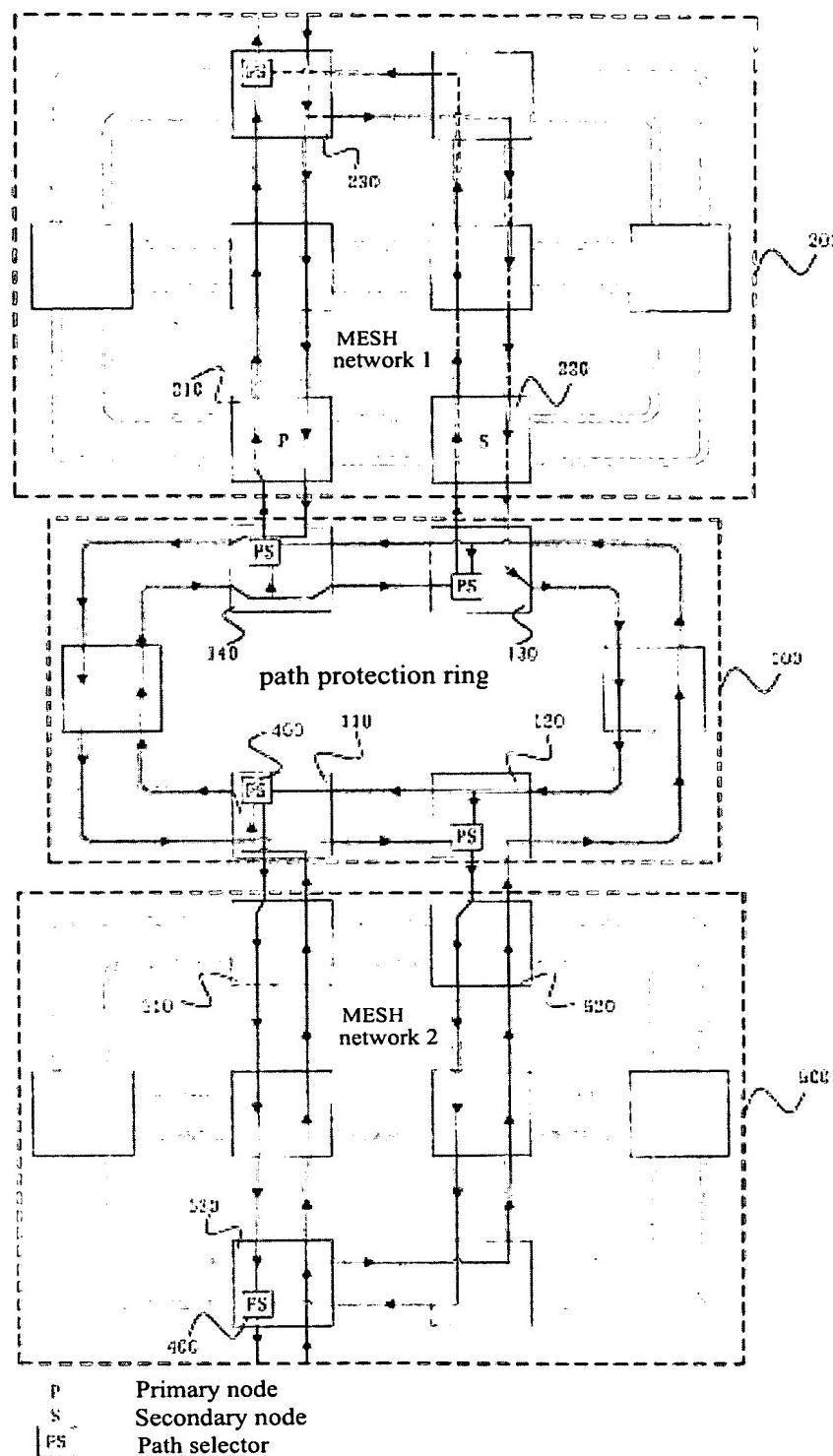


Primary node
 Secondary node
 Path selector

The first dual-node interconnection scheme between a mesh network with restoration and a mesh network with SNCP via a SNCP ring in a mesh-ring-mesh situation

Fig. 30

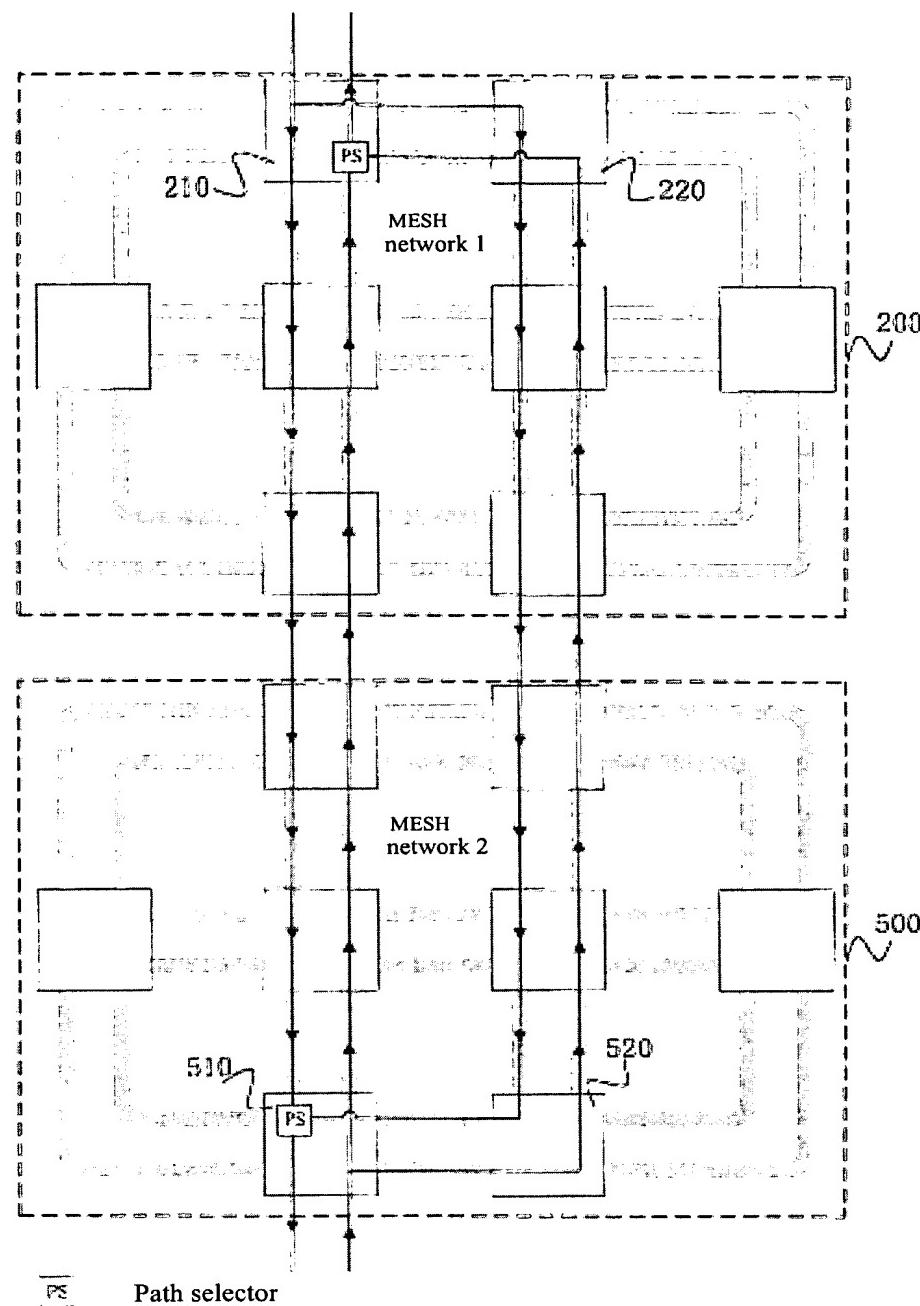
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The second dual-node interconnection scheme between a mesh network with restoration and a mesh network with SNCP via a SNCP ring in a mesh-ring-mesh situation

Fig. 31

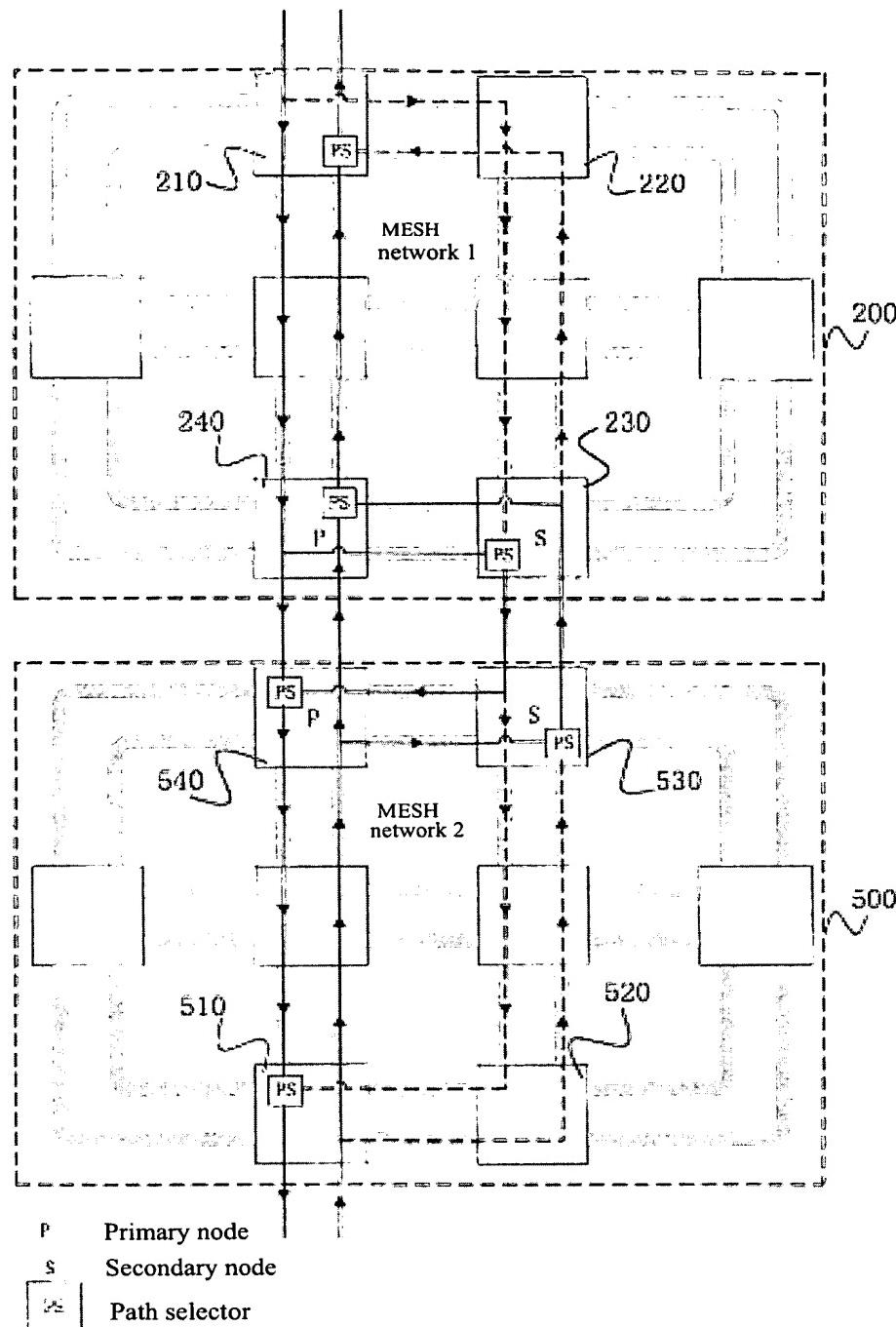
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A dual-node interconnection scheme between two mesh networks with SNCP

Fig. 32

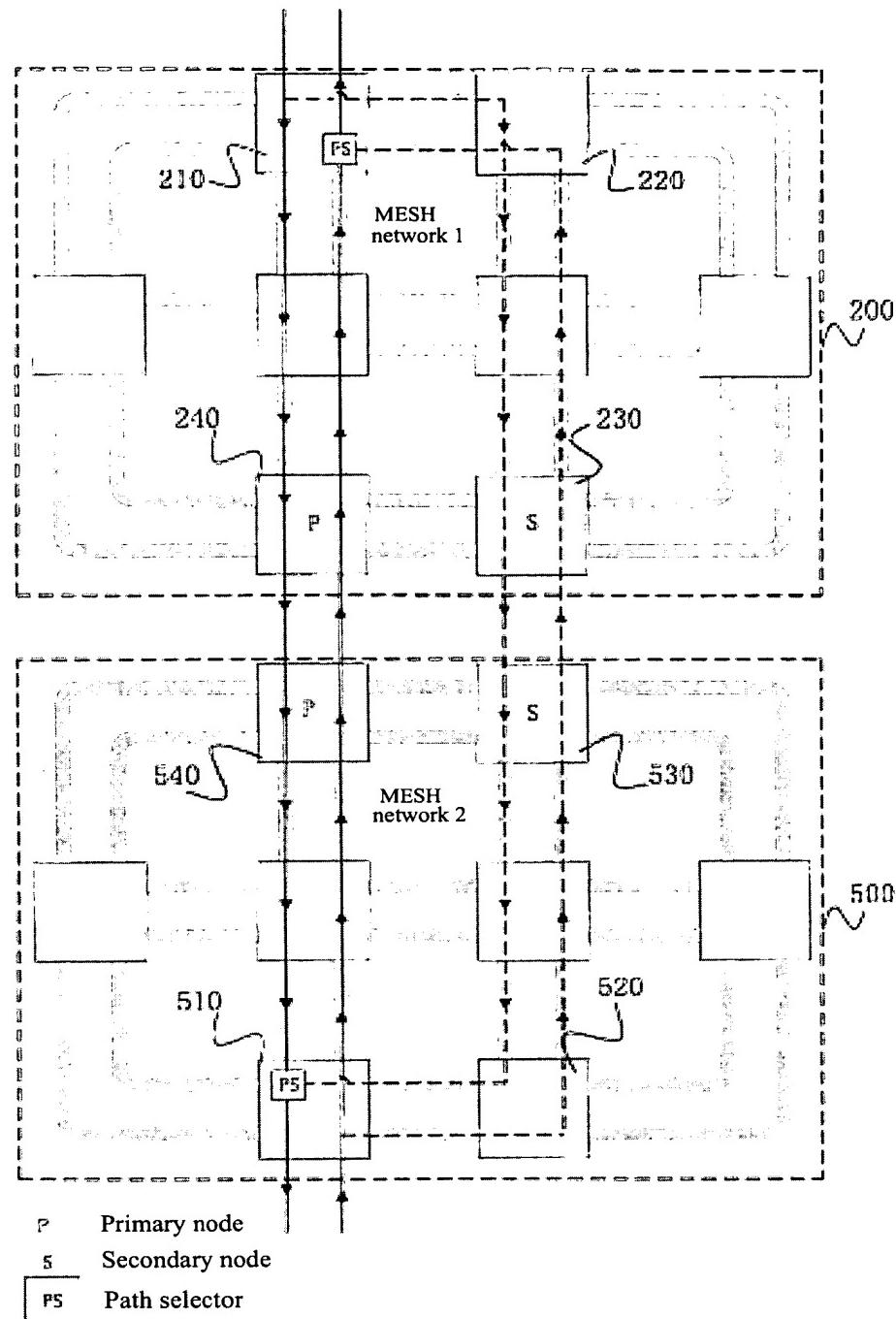
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The first dual-node interconnection scheme between two mesh networks with restoration

Fig. 33

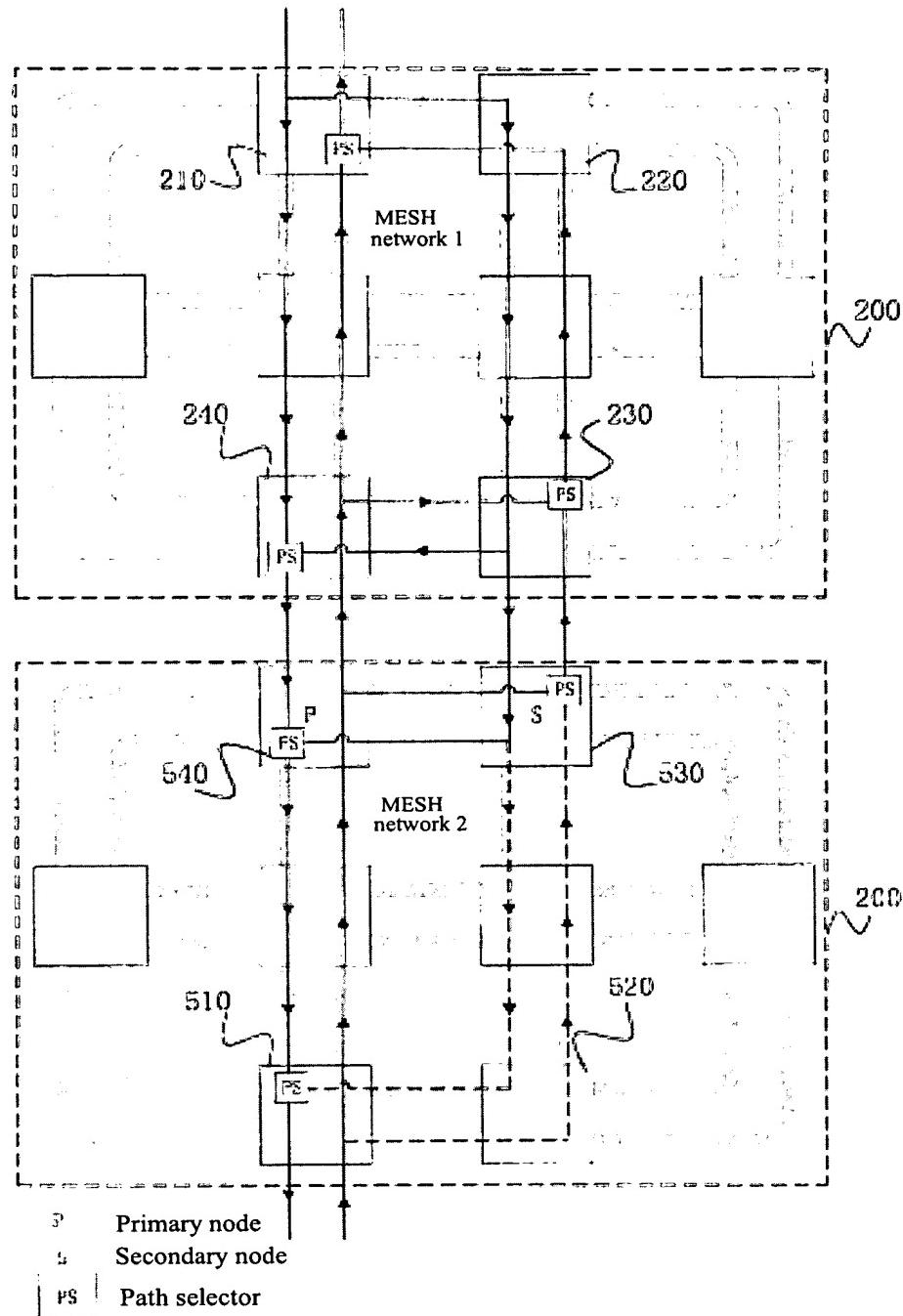
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The second dual-node interconnection scheme between two mesh networks with restoration

Fig. 34

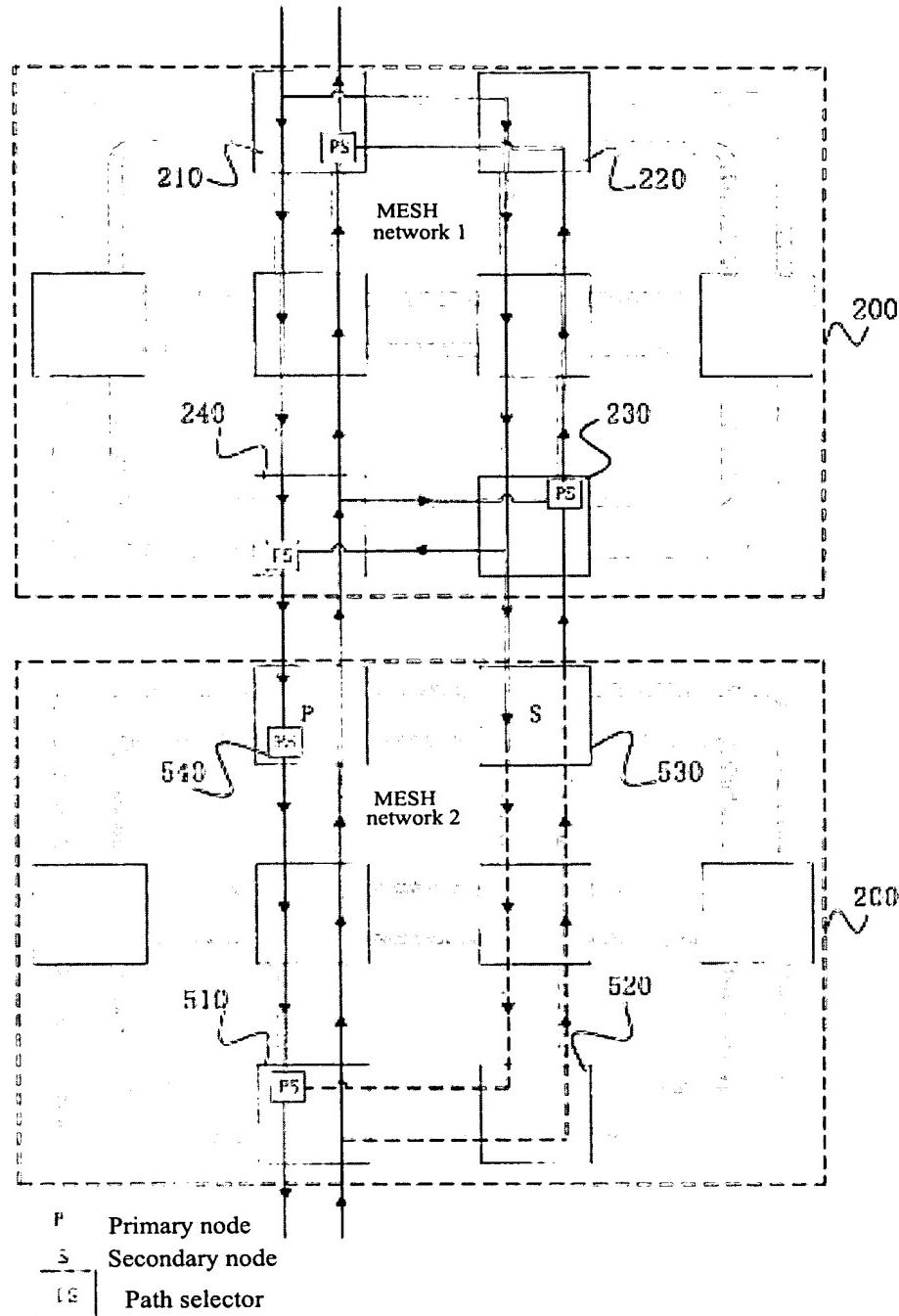
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The first dual-node interconnection scheme between a mesh network with SNCP and a mesh network with restoration

FIG. 35

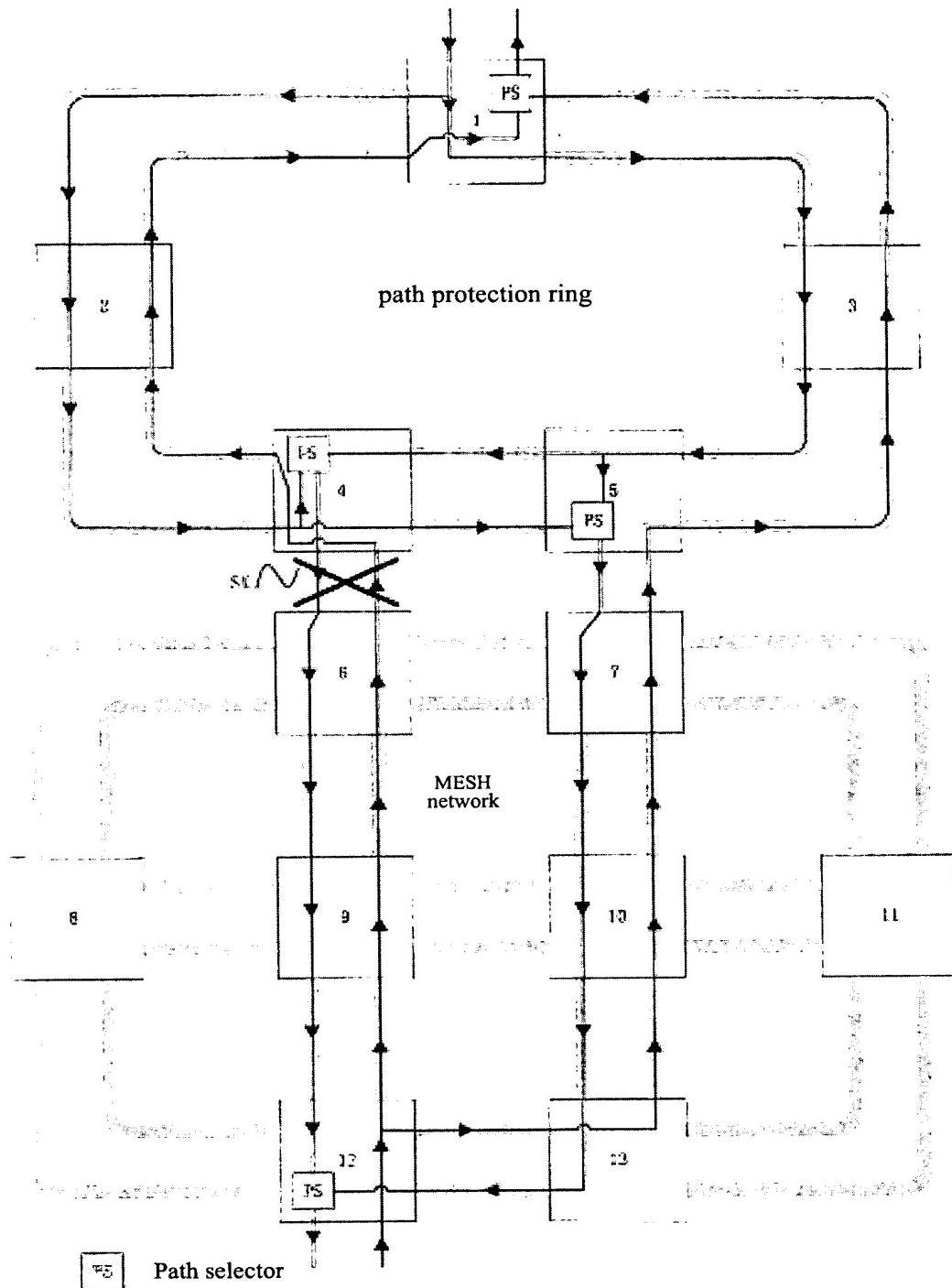
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The second dual-node interconnection scheme between a mesh network with SNCP and a mesh network with restoration

Fig. 36

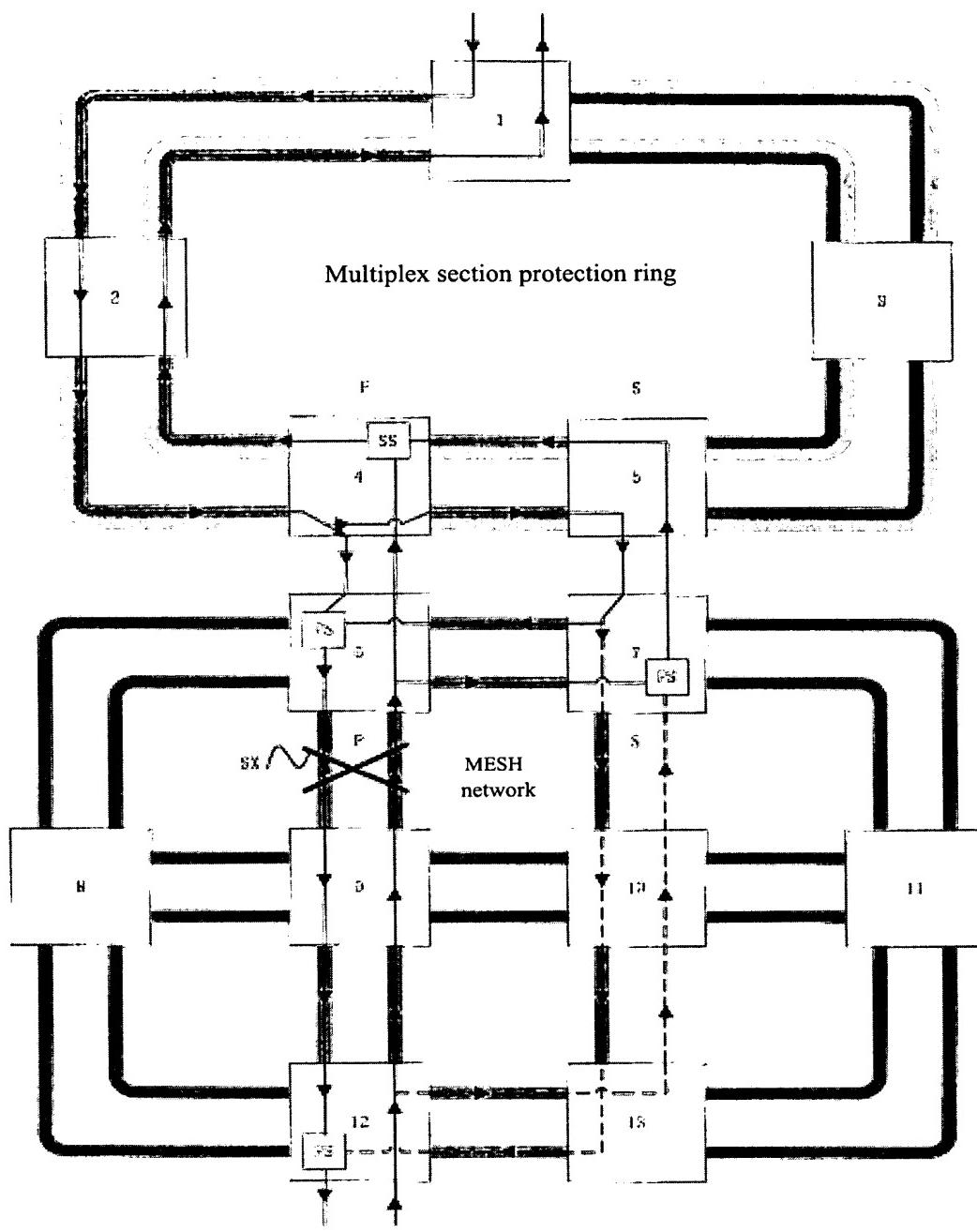
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An inter-network link failure occurs when a SNCP ring and a mesh network with SNCP are dual-node interconnected

Fig. 37

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P Primary node

S Secondary node

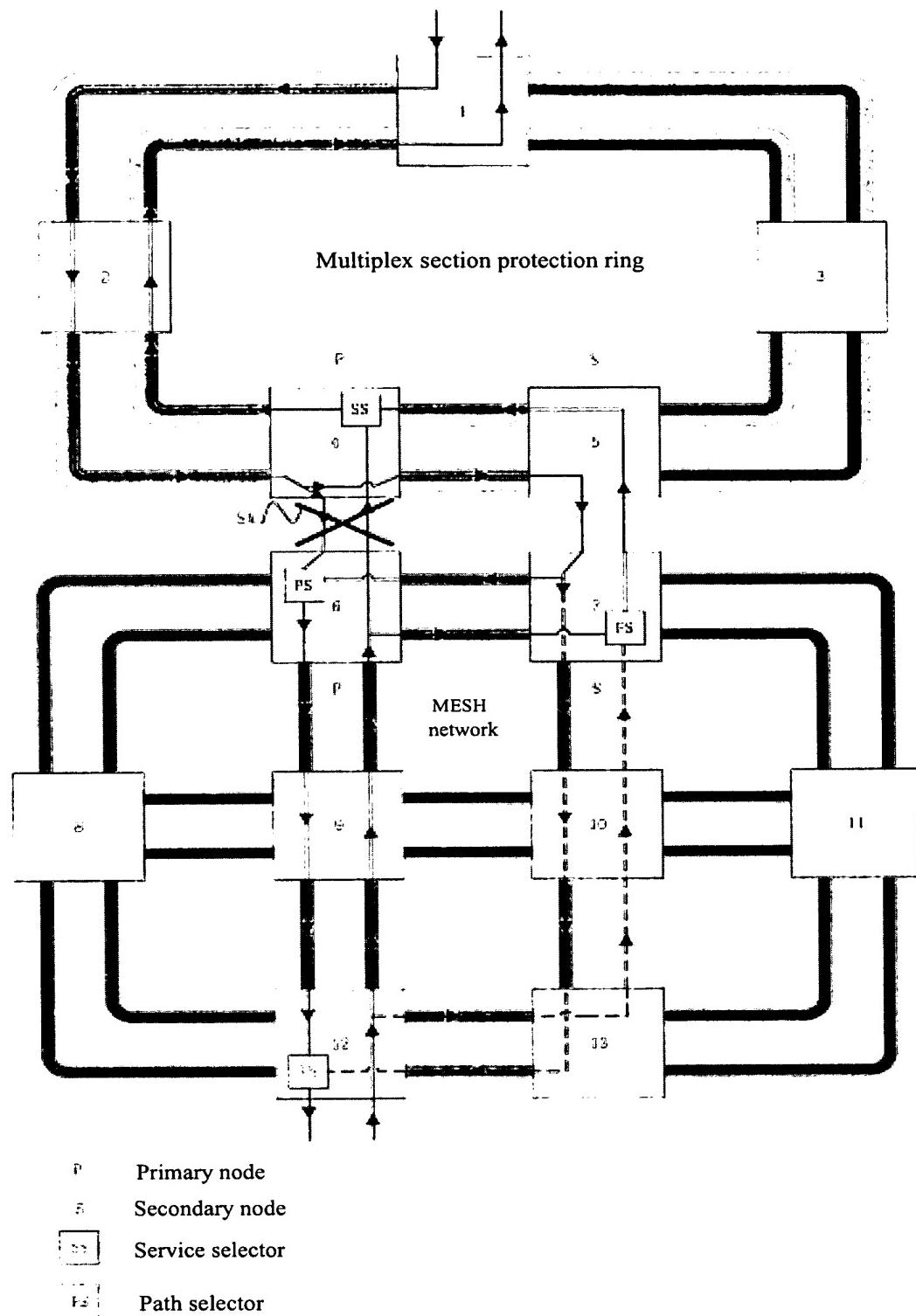
SS Service selector

PS Path selector

A restoration of a single link failure in a mesh network

FIG. 38

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A protection of a single link failure between networks

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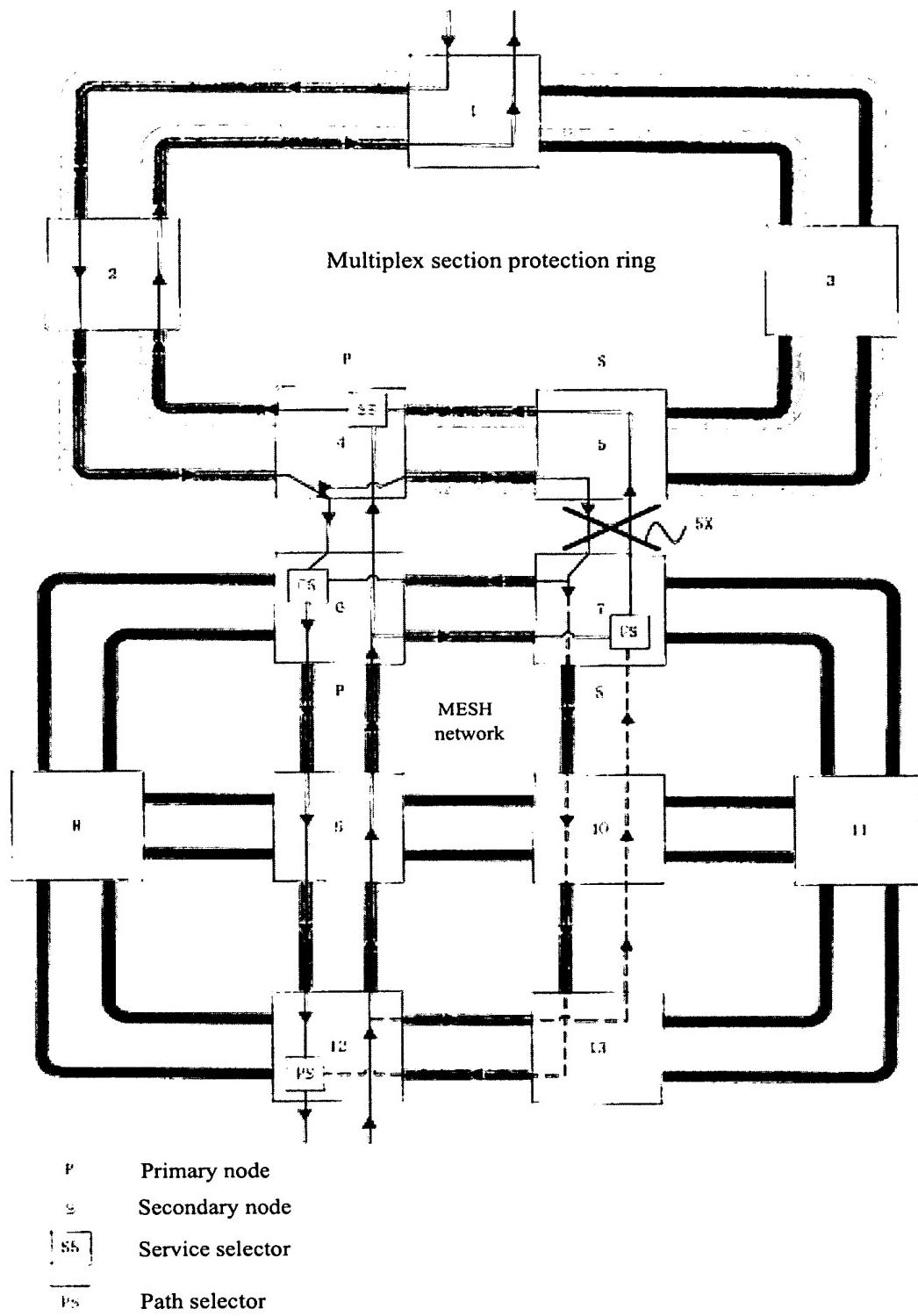
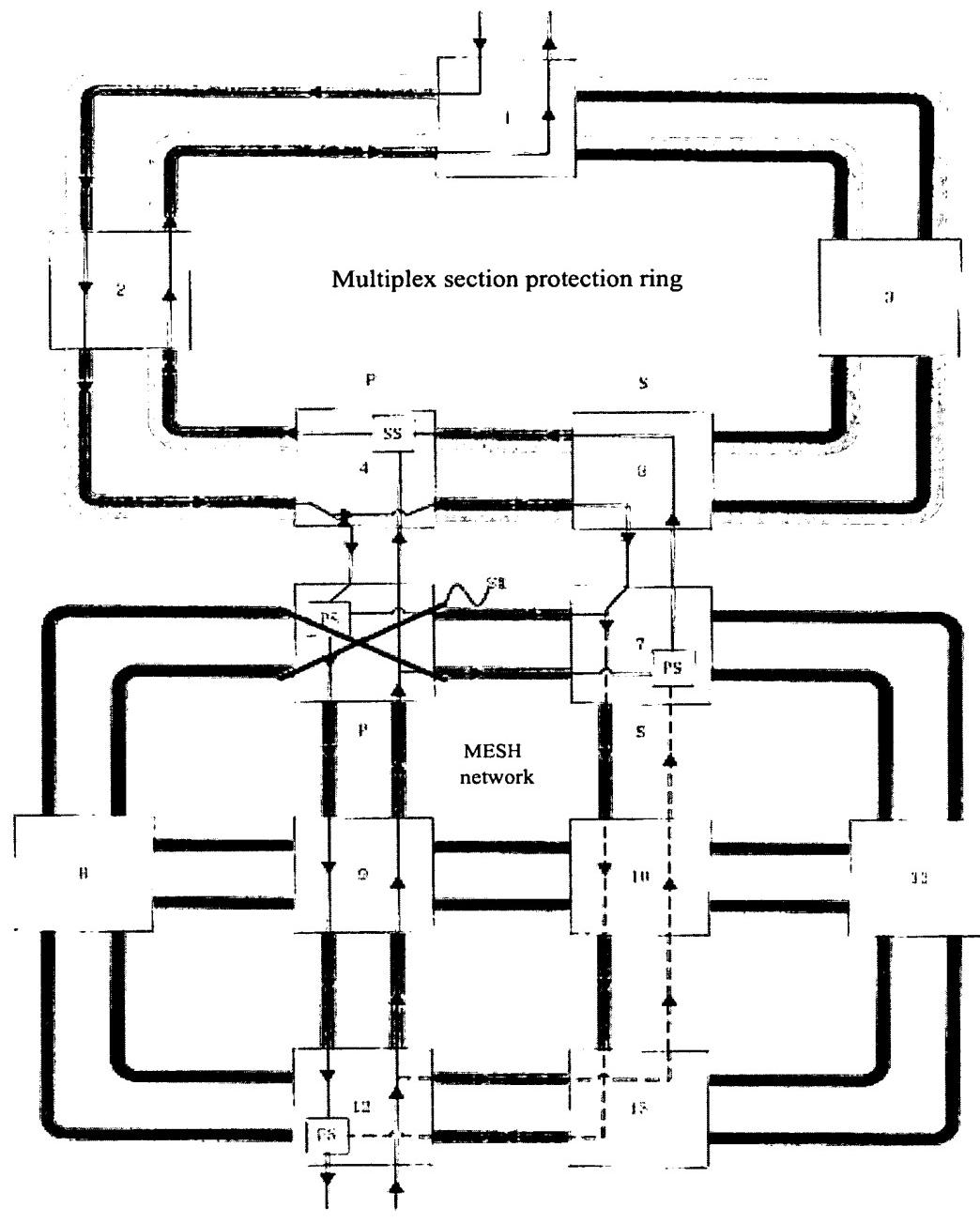


Fig. 40

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- P Primary node
- S Secondary node
- [SS] Service selector
- [PS] Path selector

a restoration for a node failure

Fig. 41